

PEMBROKE
STATE UNIVERSITY

1991-92 CATALOG

IMBROKE STATE UNIVERSITY



Pembroke State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Bachelor's and Master's level degrees. Pembroke State University is accredited by or is a member of:

The North Carolina Association of Colleges and Universities
 The National Council for Accreditation of Teacher Education
 The National Association of Schools of Music
 The American Association of Colleges for Teacher Education
 The American Council on Education
 The North Carolina Criminal Justice Education and Training Standards Commission
 The North Carolina State Board of Education
 The Association of Field Services in Teacher Education
 The American Association of State Colleges and Universities
 The Council on Social Work Education
 The National Association of Schools of Public Affairs and Administration

* * * * *

This catalog provides the basic information you will need about Pembroke State University. It includes our history and current goals, admissions standards and requirements, tuition and other costs, sources of financial aid, and rules and regulations that govern student life. This catalog also describes our student organizations and other activities on the campus, lists courses and programs by department, and contains the name, rank, and educational background of each faculty member.

Pembroke State University is committed to equality of educational opportunity and does not discriminate against applicants, students, or employees based on color, national origin, religion, sex, age, or handicap. Moreover, Pembroke State University is open to people of all races and actively seeks to promote racial integration by recruiting and enrolling a larger number of American Indian, Asian, Black, and Hispanic students.

* * * * *

Pembroke State University reserves the right to change without notice any fee, provision, offering, or requirement in this catalog, and to determine whether a student has satisfactorily met the requirements for admission or graduation.

* * * * *

Pembroke State University is one of sixteen universities in The State of North Carolina that make up The University of North Carolina.

Pembroke State University has a thirteen-member Board of Trustees and like the other institutions of The University of North Carolina, is subject to the governing regulations of The Board of Governors of The University of North Carolina.

ABOUT THE COVER: "Old Main" is the oldest building on Pembroke State University's campus and the first brick building for the school, completed in 1923.

This catalog was prepared under the auspices of the PSU Office of Public Information
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PEMBROKE STATE UNIVERSITY



1991-1992 CATALOG

WHOM TO CONTACT ABOUT	Telephone (919) 521-4214
Academic Records & Transcripts	Office of Records and Special Programs, Ext. 303
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All communications should be directed to the proper University office and addressed to:

Pembroke State University
Pembroke, North Carolina 28372-1510

PEMBROKE STATE UNIVERSITY

Academic Programs Offered and Degrees Conferred

Programs are listed under the appropriate academic departments.

Administrative Studies, M.S.	Health, Physical Education, & Recreation:
American Indian Studies, B.A.	Health, Physical Education, &
Art:	Recreation, B.S.
Art, B.A.	Physical Education (K-12), B.S.
Art Education, B.A.	Recreational Management, B.S.
Biology:	History:
Biology, B.S.	History, B.A.
Medical Technology, B.S.	Social Studies Education, B.A.
Biology Education, B.S.	Mathematics & Computer Science:
Business Administration:	Computer Science, B.S.
Accounting, B.S.	Mathematics, B.S.
Economics, B.A.	Mathematics Education, B.S.
Management, B.S.	Music:
Business Education, B.S.	Music, B.A.
Business, Applied Science, B.S.A.S.	Music Education:
Communicative Arts:	Instrumental, B.S.
Literature, B.A.	Vocal, B.S.
English Education, B.A.	Keyboard, Instrumental, B.S.
Theatre Arts, B.A.	Keyboard, Vocal, B.S.
Contracted Major, B.A.	Music Industry, B.A.
Arts Management	Music Performance, B.A.
Broadcasting	Philosophy and Religion:
Journalism	Philosophy, B.A.
Public Relations Communication	Religion, B.A.
Education:	Physical Science:
Educational Administration, &	Chemistry, B.S.
Supervision:	Medical Technology, B.S.
Educational Administration, M.A.Ed.	Political Science:
Supervision, M.A.Ed.	Political Science, B.A.
Elementary Education:	Pre-Law, B.A.
Elementary Education (K-6), B.S.,	Public Administration, B.A.
M.A.Ed.	Psychology, B.S.
Reading Education, M.A.Ed.	Science Education, B.S.
Middle Grades Education (6-9), B.S.,	Sociology, Social Work, & Criminal Justice:
M.A.Ed.	Criminal Justice, B.A.
Special Education:	Social Work, B.S.
Learning Disabilities, B.S.	Sociology, B.A.
Mental Retardation, B.S.	

Academic Minors Offered

American Indian Studies	Journalism	Psychology
Applied Gerontology	Language	Public Administration
Art	Legal Studies	Public Relations
Athletic Coaching	Literature	Communication
Business Administration	Mathematics	Recreation
Computer Science	Medical Sociology	Religion
Criminal Justice	Mental Health	Sacred Music
Economics	Music	Social Welfare
French	Personnel and Organiza-	Sociology
Geography	tional Leadership	Spanish
Geology	Philosophy and Religion	Speech
Health Education	Philosophy	Theatre
History	Physical Education	World Studies
Jazz Studies	Political Science	Writing

Other Academic Offerings

Chancellor's Scholars Program	Aerospace Studies: Air Force ROTC
College Opportunity Program	Military Science: Army ROTC

SUMMARY OF BASIC STUDIES REQUIREMENTS*

A. Basic Skills (6 hours)

CMA 105, 106

B. Humanities (18 hours)

1. Fine Arts (3 hours) Choice of one: ART 205, CMA 250, MUS 230, 295
2. Literature (3 hours) Choice of one: CMA 203, 205, 206
3. History (3 hours) Choice of one: HST 101, 102, 126, 127, 210 (AIS 210)
4. Philosophy/Religion (3 hours) Choice of one: PHI 100, 101, 204; REL 130
5. Humanities Electives (6 hours)

Choice of two courses, to be chosen from two areas below. A student may elect six hours of foreign language. Chancellor's Scholars may elect six hours from Area 5. Teacher Education candidates take history and literature.

Area 1. Fine Arts: ART 101, 205; CMA 250; MUS 113, 209, 230, 296

Area 2. Communicative Arts: CMA 100, 101, 204, 205, 206, 207, 220 (AIS 220), CMA 221, 246; FRH 131, 132, 231, 232; GER 131, 132, 231, 232; SPN 131, 132, 231, 232

Area 3. History: HST 101, 102, 126, 127, 210 (AIS 210), 250

Area 4. Philosophy/Religion: AIS 201, PHI 100, 101, 102 (REL 102), 202, 204, 205, 211; REL 105, 106, 130, 209, 213 (AIS 213), REL 214, 216, 218

Area 5. Chancellor's Scholars only: CSP 200, 201

Note: No more than two of the following courses—AIS 201, 210 (HST 210), AIS 213 (REL 213), AIS 220 (CMA 220)—shall apply to requirements.

C. Social Science (12 hours)

Choice of four out of five disciplines, with 3 hours in each of the four.

Economics: ECN 201

Geography: GGY 101, 102, 200, 206 (ECN 206)

Political Science: PLS 100, 101

Psychology: PSY 101

Sociology SOC 101, 105, 201

Chancellor's Scholars may substitute CSP 100 and 275 for courses in any two disciplines.

D. Natural Science and Mathematics (12 hours)

1. Biology (3 hours)—BIO 100

2. Physical Science (3 hours)—Choice of one: CHM 100, PHS 110, 111; PHY 100, 150, 200 (Chancellor's Scholars only: CSP 151)

3. Mathematics (3 hours)—Choice of one: 105, 106, 107, 108, 109, 221

4. NatSci/Math Elective (3 hours)—Choice of one from Categories 2 and 3 or 3 hours from the following: BIO 110L, 101, 102, 103, 201, 207, 210; CHM 100, 101; CSC 200, 201, 202; GLY 100, 115; MAT 105, 106, 107, 108, 109, 118, 210, 221, 222; PHS 110, 111, 116, 156; PHY 100, 101, 115, 150, 151, 200, 201.

Chancellor's Scholars only: CSP 150.

E. Physical Education (2 hours) Select from PED 101, 130, 131, 132, 133, 134, 135, 137, 138, 139, 140, 141, 142, 145, 146, 172, 177, 179, 180.

*See page 83 for complete description of Basic Studies Requirements.

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CALENDAR — 1991-92**FIRST SEMESTER**

August 16, Friday	4:00 p.m. - Classes will be cancelled for students who REGISTERED EARLY AND HAVE NOT PAID.
August 18, Sunday	1:00 p.m. - Residence Halls Open for Freshmen who have not attended Freshman Orientation
August 18-20, Sunday-Tuesday	Orientation and Testing Program
August 19-20, Monday-Tuesday	9:00 a.m. - 4:00 p.m. - Registration 8:00 a.m. - 6:00 p.m. - Graduate Registration
August 20, Tuesday	8:00 a.m. - Residence Halls Open for Non-Freshmen 4:00 p.m. - 6:00 p.m. - Registration for Evening Students
August 21, Wednesday	8:00 a.m. - Undergraduate Classes Begin 6:30 p.m. - Graduate Classes Begin
August 21, 22, & 23 Wednesday, Thursday, Friday	Drop-Add - (No Charge) Drop-Add Fee Begins
August 26, Monday	5:00 p.m. - Last Day to Register for a Class or to Add a Class
August 30, Friday	Holiday
September 2, Monday	Fall Convocation—To be announced
September 11, Wednesday	Last day to Drop a First-Eight-Week Course with a “W” Grade
October 2, Wednesday	End of First Six Weeks and Last Day to Drop a Course with a “W” Grade
October 16, Wednesday	4:00 p.m. - Mid-Semester Grades Due
October 17-18, Thursday-Friday	Mid-Semester Break
October 18, Friday	Mid-Point of the Semester. Last Date for Prorated Tuition/Fee Refund
November 6, Wednesday	Last Day to Drop a Second-Eight-Week Course with a “W” Grade
November 6, Wednesday	10:00 - 11:15 a.m. - Departmental Majors Meetings
November 6-22, Wednesday-Friday	9:00 a.m. - 4:00 p.m. - Advisement and Early Registration (Undergraduate) 8:00 a.m. - 5:00 p.m. - Advisement and Early Registration (Graduate)
November 13, 14, 18, & 19 Wednesday, Thursday, Monday & Tuesday	4:00 - 6:00 p.m. - Evening Advisement and Early Registration
November 27, Wednesday	10:00 p.m. - Holiday Begins
December 2, Monday	8:00 a.m. - Classes Resume
December 9, Monday	10:00 p.m. - Classes End
December 10, Tuesday	Reading Day for Final Examinations
December 11-17, Wednesday - Tuesday	Final Examinations
December 18, Wednesday	5:00 p.m. - All Residence Halls Close

SECOND SEMESTER

January 2, Thursday	8:00 a.m. - All Residence Halls Open
January 2-3, Thursday-Friday	9:00 a.m. - 4:00 p.m. - Undergraduate Registration
	8:00 a.m. - 5:00 p.m. - Graduate Registration
January 2, Thursday	4:00 p.m. - 6:00 p.m. - Registration for Evening Students
January 6, Monday	8:00 a.m. - Undergraduate Classes Begin
	6:30 p.m. - Graduate Classes Begin
January 6-7, Monday-Tuesday	Drop-Add (No Charge)
January 8, Wednesday	Drop-Add Fee Begins
January 13, Monday	5:00 p.m. - Last Day to Register for a Class or to Add a Class
January 20, Monday	Holiday
January 27, Monday	Last Day to Drop a First-Eight-Week Class with a "W" Grade
February 17, Monday	End of First Six Weeks and Last Day to Drop a Class with a "W" Grade
	4:00 p.m. - Mid-Semester Grades Due
February 28, Friday	5:00 p.m. - All Residence Halls Close
	10:00 p.m. - Spring Vacation Begins
March 2, Monday	Mid-Point of the Semester. Last Date for Prorated Tuition/Fee Refund
March 8, Sunday	1:00 p.m. - All Residence Halls Open
March 9, Monday	8:00 a.m. - Classes Resume
March 23, Monday	Last Day to Drop a Second-Eight-Week Class with a "W" Grade
April 16, Thursday	10:00 p.m. - Holidays Begin
April 21, Tuesday	8:00 a.m. - Classes Resume
April 8, Wednesday	10:00 - 11:15 a.m. - Departmental Majors Meetings
April 8, 9, 13, & 14-Wednesday, Thursday, Monday-Tuesday	4:00 p.m. - 6:00 p.m. - Evening Advisement and Early Registration
April 8-24, Wednesday-Friday	9:00 a.m. - 4:00 p.m. - Advisement and Early Registration (Undergraduate)
	8:00 a.m. - 5:00 p.m. - Advisement and Early Registration (Graduate)
April 15, Wednesday	10:15 a.m. - Awards Day
April 27, Monday	10:00 p.m. - Classes End
April 28, Tuesday	Reading Day for Final Examinations
April 29-May 5, Wednesday-Tuesday	Final Examinations
May 6, Wednesday	8:00 a.m. - Senior Grades Due
May 8, Friday	5:00 p.m. - All Residence Halls Close
May 9, Saturday	2:00 p.m. - Commencement

SUMMER SESSION - 1992

FIRST TERM

May 25-27, Monday-Wednesday	9:00 a.m. - 4:00 p.m. - Registration
May 26-28, Tuesday-Thursday	8:00 a.m. - 5:00 p.m. Graduate Registration
May 27, Wednesday	8:00 a.m. - All Residence Halls Open
May 28, Thursday	8:00 a.m. - Undergraduate Classes Begin 6:00 p.m. - Graduate Classes Begin
May 29, Friday	Late Registration Fee and Change of Course Fee Apply and Last Day to Register for Course Credit
June 8, Monday	Last Day to Drop a Course with a "W" Grade
June 11, Thursday	8:00 a.m. - Intra-Session Begins 8:00 a.m. - 6:00 p.m. - Graduate Intra-Session Registration and First Class at 6:00 p.m.
June 25-26, Thursday-Friday	9:00 a.m. - 4:00 p.m. - Early Registration for Second Session
July 1, Wednesday	Final Examinations for First Term of Summer School for Undergraduates and Last Day of First Term of Summer School

SECOND TERM

July 1, Wednesday	8:00 a.m. - All Residence Halls Open
July 2, Thursday	8:00 a.m. - 4:00 p.m. - Undergraduate Registration 8:00 a.m. Undergraduate Classes Begin 8:00 a.m. - 6:00 p.m. - Graduate Registration and Graduate Classes Begin at 6:00 p.m.
July 3, Friday	Last Day to Register for Course Credit. Late Registration Fee and Change of Course Fee Apply
July 3, Friday	Graduate Make-up Day for July 6
July 6, Monday	Holiday
July 13, Friday	Last Day to Drop a Course with a "W" Grade
August 6, Thursday	Final Examinations for Second Term of Summer School for Undergraduates and Last Day of Second Term of Summer School 5:00 p.m. - All Residence Halls Close

***NOTE: THIS ACADEMIC CALENDAR IS SUBJECT TO REVIEW AND REVISION.**

PEMBROKE STATE UNIVERSITY

PEMBROKE, NORTH CAROLINA 28372



OFFICE OF THE CHANCELLOR

Dear Students and Parents:

Pembroke State University is a unique institution of higher education. It began as a small normal school for the American Indians of Robeson County in 1887. Over the past century, it has grown in size, in diversity, and in distinction. Today, it ranks as one of the significant universities within The University of North Carolina system.

Although this institution was restricted to American Indians until the 1950's, today's student body consists of approximately 63 percent White, 23 percent American Indian, and 12 percent Black. We are proud of this ethnic diversity which is unparalleled in this country.

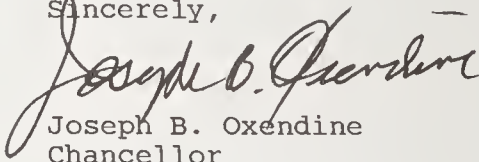
The academic programs at Pembroke State University emphasize a balance between a strong liberal arts education and preparation for diversified careers. We recognize the paramount need to prepare students to assume leadership roles in society, to become effective citizens, and to live fulfilling lives. In addition, we recognize that today's graduates must have flexible career options to avoid the problem of planned human obsolescence, a characteristic which is too evident in many vocationally-oriented curricula.

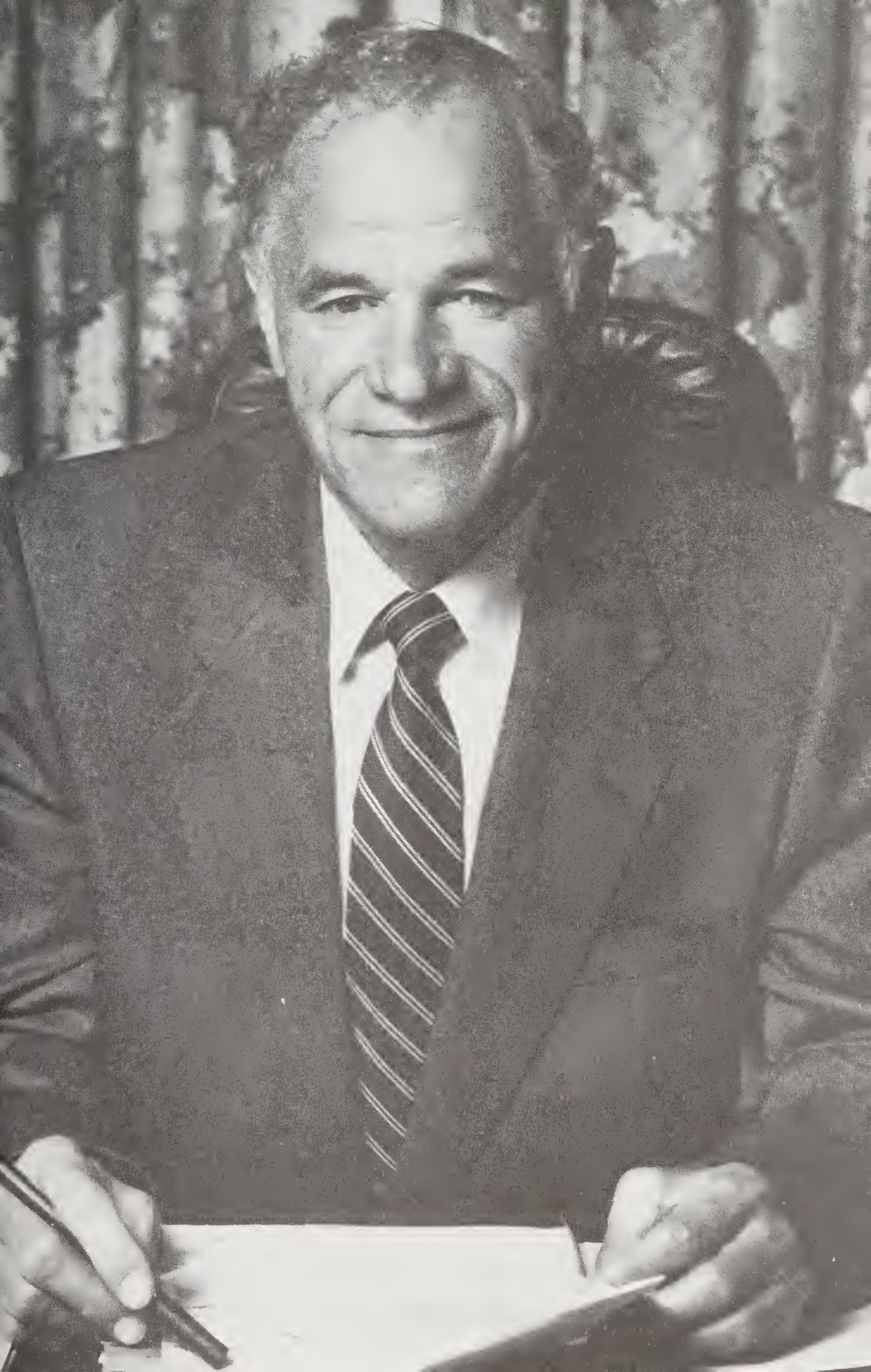
While providing a broad, traditional liberal arts education, the University still offers a curriculum designed to prepare students for a wide range of career opportunities. At present, we offer 47 undergraduate programs and 8 graduate programs.

Pembroke State University takes pride in the strength of its academic programs, but faculty and administrators realize that good education does not take place in a vacuum. Student-faculty interaction, club activities, varsity and intramural sports, performing arts, community service programs, and a host of other co-curricular activities are available and are encouraged.

I hope this catalog provides you with a clear view of the breadth and depth of our programs as well as some sense of the vitality of Pembroke State University. If you would like to really get to know us, I strongly urge you to visit our campus.

Sincerely,


Joseph B. Oxendine
Chancellor





Organization

The University of North Carolina

Pembroke State University

Trustees

Administration

Mission of the University

Faculty Senate

THE UNIVERSITY OF NORTH CAROLINA

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Raleigh 27607

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Bus. 202/224-3154
Res. 919/489-6326

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P.O. Box 13646
Research Triangle Park 27709

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Raleigh 27622

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Greenville 27835

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Res. 919/355-7299

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Tel: Bus. 919/739-9717
Res. 919/521-9006

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THE UNIVERSITY OF NORTH CAROLINA: GENERAL ADMINISTRATION

Sixteen Constituent Institutions

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 ROY CARROLL, B.A., M.A., Ph.D.—Vice President-Planning
 NATHAN F. SIMMS, JR., B.S., M.S., Ph.D.—Vice President-Student Services and Special Programs
 L. FELIX JOYNER, A. B.—Vice President-Finance
 JASPER D. MEMORY, B.S., Ph.D.—Vice President-Research and Public Service
 WYNDHAM ROBERTSON, A.B.—Vice President-Communications
 JAY M. ROBINSON, B.S., M.A., Ed.D.—Vice President-Public Affairs
 D. G. MARTIN, JR., B.A., LL.B.—Secretary of the University
 RICHARD H. ROBINSON, JR., A.B., LL.B.—Assistant to the President
 JOHN W. DUNLOP, B.A.—Director, the University of North Carolina Center for Public Television

The University of North Carolina

A HISTORY

“...to consult the happiness of a rising generation, and endeavor to fit them for a honorable discharge of the social duties of life, by paying the strictest attention to their education . . .”

In North Carolina, all the public educational institutions that grant baccalaureate degrees are part of the University of North Carolina. Pembroke State University is one of 16 constituent institutions of the multi-campus state university.

The University of North Carolina, chartered by the N.C. General Assembly in 1789, was the first public university in the United States to open its doors and the only one to graduate students in the eighteenth century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

In 1877, the N.C. General Assembly began sponsoring additional institutions of higher education, diverse in origin and purpose. Five were historically black institutions, and another was founded to educate American Indians. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

In 1931, the N.C. General Assembly redefined the University of North Carolina to include three state-supported institutions, the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (now North Carolina State University at Raleigh), and Woman's College (now the University of North Carolina at Greensboro). The new multi-campus University operated with one board of trustees and one president. By 1969, three additional campuses had joined the University through legislative action: the University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington.

In 1971, the General Assembly passed legislation bringing into the University of North Carolina the state's ten remaining public senior institutions, each of which had until then been legally separate: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, the North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University. This action created the current 16-campus University. (In 1985, the North Carolina School of Science and Mathematics, a residential high school for gifted students, was declared an affiliated school of the University.)

The UNC Board of Governors is the policy-making body legally charged with “the general determination, control, supervision, management, and governance of all affairs of the constituent institutions.” It elects the president, who administers the University. The 32 voting members of the Board of Governors are elected by the General Assembly for four-year terms. Former board chairmen and board members

who are former governors of North Carolina may continue to serve for limited periods as non-voting members emeriti. The president of the UNC Association of Student Governments, or that student's designee, is also a non-voting member.

Each of the 16 constituent institutions is headed by a chancellor, who is chosen by the Board of Governors on the president's nomination and is responsible to the president. Each institution has a board of trustees, consisting of eight members elected by the Board of Governors, four appointed by the governor, and the president of the student body, who serves *ex officio*. (The NC School of the Arts has two additional *ex-officio* members.) Each board of trustees holds extensive powers over academic and other operations of its institution on delegation from the Board of Governors.

PEMBROKE STATE UNIVERSITY

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1991-1992

Term Expires	Appointed By	Name and Address	Telephone	
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1993	G	Biggs, Murchison Bolton P.O. Box 671 Lumberton, NC 28358	919-739-2871	919-739-8057
1995	G	George, Fred 5419 Scotch Meadows Dr. Laurinburg, NC 28352	919-844-5631	919-276-5642
1995	B/G	Hammonds, Ronald Route 8, Box 289 Lumberton, NC 28358	919-739-4973	
1993	B/G's	Lowry, Jerry (Secretary) P.O. Box 1707 Pembroke, NC 28372	919-521-8197	919-521-9044
1993	B/G's	Nicholson, John C. 201 Stirling Dr. Lumberton, NC 28358	919-739-3277	919-739-2281
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1993	B/G's	Ransom, Julian Route 1, Box 27 Pembroke, NC 28372		919-521-4730
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1993	G	Winfree, Rosa R. 1231 Bearmore Dr. Charlotte, NC 28211	704-379-7287	704-365-0841

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JOHNNA WILSON, B.A.	<i>Admissions Counselor</i>
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.....	<i>Instructor/Tutor Coordinator, Student</i>
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	<i>Services</i>
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	<i>Program</i>
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	<i>N.C. Health Careers Access Program</i>
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A. WARREN LOVE, B.S., M.Ed.	<i>Director of Media Center</i>

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	<i>and Economics</i>
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	<i>Education, and Recreation</i>
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TERRY R. SOPHER, JR., B.A.	<i>Military Science</i>

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WILBERT CHAVIS	<i>Printing Dept. Manager</i>
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MILLIE JACOBS	<i>Assistant Bookstore Manager</i>
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JOSEPH E. SANDLIN, B.A., C.P.A., L.H.D.	<i>Distinguished Executive In Residence</i>
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CHARLES BRYANT	<i>Campus Police Chief</i>

HISTORY OF PEMBROKE STATE UNIVERSITY

On March 7, 1887 the General Assembly of North Carolina enacted legislation sponsored by Representative Hamilton McMillan of Robeson County creating the Croatan Normal School. The law, which was in response to a petition from the Indian people of the area, established a Board of Trustees and appropriated five hundred dollars to be used only for salaries. A building was constructed by the local people at a site about one mile west of the present location, and the school opened with fifteen students and one teacher in the fall of 1887. For many years the instruction was at the elementary and secondary level, and the first diploma was awarded in 1905.

The school was moved to its present location in Pembroke, the center of the Indian community, in 1909. The General Assembly changed the name of the institution in 1911 to the Indian Normal School of Robeson County, and again in 1913 to the Cherokee Indian Normal School of Robeson County. In 1926 the Board of Trustees added a two-year normal program beyond high school, and phased out elementary instruction. The first ten diplomas were awarded in 1928, when the state accredited the school as a "standard normal school."

Additional college classes were offered beginning in 1931, and in 1939 a fourth year was added with the first degrees conferred in 1940. In recognition of its new status, the General Assembly changed the name of the school in 1941 to Pembroke State College for Indians. Until 1953 it was the only state-supported four-year college for Indians in the nation. The scope of the institution was widened in 1942 when non-teaching baccalaureate degrees were added, and in 1945 when enrollment, previously limited to the Indians of Robeson County, was opened to people from all federally-recognized Indian groups. A few years later, in 1949, the General Assembly shortened the name to Pembroke State College.

The Board of Trustees approved the admission of White students up to forty percent of the total enrollment in 1953 and, following the Supreme Court's school desegregation decision, opened the College to all qualified applicants without regard to race in 1954. Growth of over five hundred percent followed during the next eight years. In 1969 the General Assembly changed the name again to Pembroke State University, and made the institution a regional university. Such universities were authorized "to provide undergraduate and graduate instruction in liberal arts, fine arts, and science, and in the learned professions, including teaching" and to "provide other graduate and undergraduate programs of instruction as are deemed necessary to meet the needs of their constituencies and of the State."

Two years later, in 1971, the General Assembly established the sixteen-campus University of North Carolina with Pembroke State University as one of the constituent institutions. The new structure was under the control of the Board of Governors, which was to coordinate the system of higher education, improve its quality, and encourage economical use of the state's resources. The Board of Governors approved the implementation of master's programs in professional education by Pembroke State University in 1978, as well as several new undergraduate programs. Since that time additional baccalaureate and master's level programs have been approved, including an M.S. in Administrative Studies.

Pembroke State University celebrated its centennial in 1987.

MISSION OF THE UNIVERSITY

Pembroke State University, as a constituent institution of The University of North Carolina, is committed to academic excellence in a balanced program of teaching, research and service. Student engagement with a faculty dedicated to sound, vigorous teaching and to dynamic contributions in their academic disciplines enables Pembroke State University graduates to perform with distinction within and beyond the region.

Founded in 1887 as an institution for the education of American Indians, Pembroke State University will continue to affirm the unique strength of its culturally diverse student body, community, and region. The interaction within and among these groups fosters social consciousness and sensitivity to the rights and views of others, encouraging appreciation of different cultures in a global perspective.

Through its commitment to education as a lifelong experience, the University seeks to enhance and enrich the intellectual, economic, social, cultural, and political life of the region.

In support of this mission, Pembroke State University is committed:

1. To maintain an environment of free inquiry in which a dynamic faculty enjoy teaching and research and in which students learn and experience growth.
2. To ensure quality academic programs and learning opportunities for the liberal arts, in preparation for diverse professions and for service to the region.
3. To encourage and support meaningful faculty research and development.
4. To recruit and retain students capable of achieving academic and professional success and of enriching the intellectual, cultural, and social community of the University.
5. To provide and support extra-curricular and student life activities and facilities designed to enrich the educational experience of residential and commuter students, enhance the image of the University, and serve the region.
6. To provide ways by which the life of the region can benefit the educational experience of the University and be enhanced by the University.
7. To instill in Pembroke State University students a continuing appreciation for diverse cultures and an active concern for the well-being of others.
8. To reflect a commitment to academic and scholarly excellence, to the University's rich heritage, and to enhancement of the immediate and larger region.

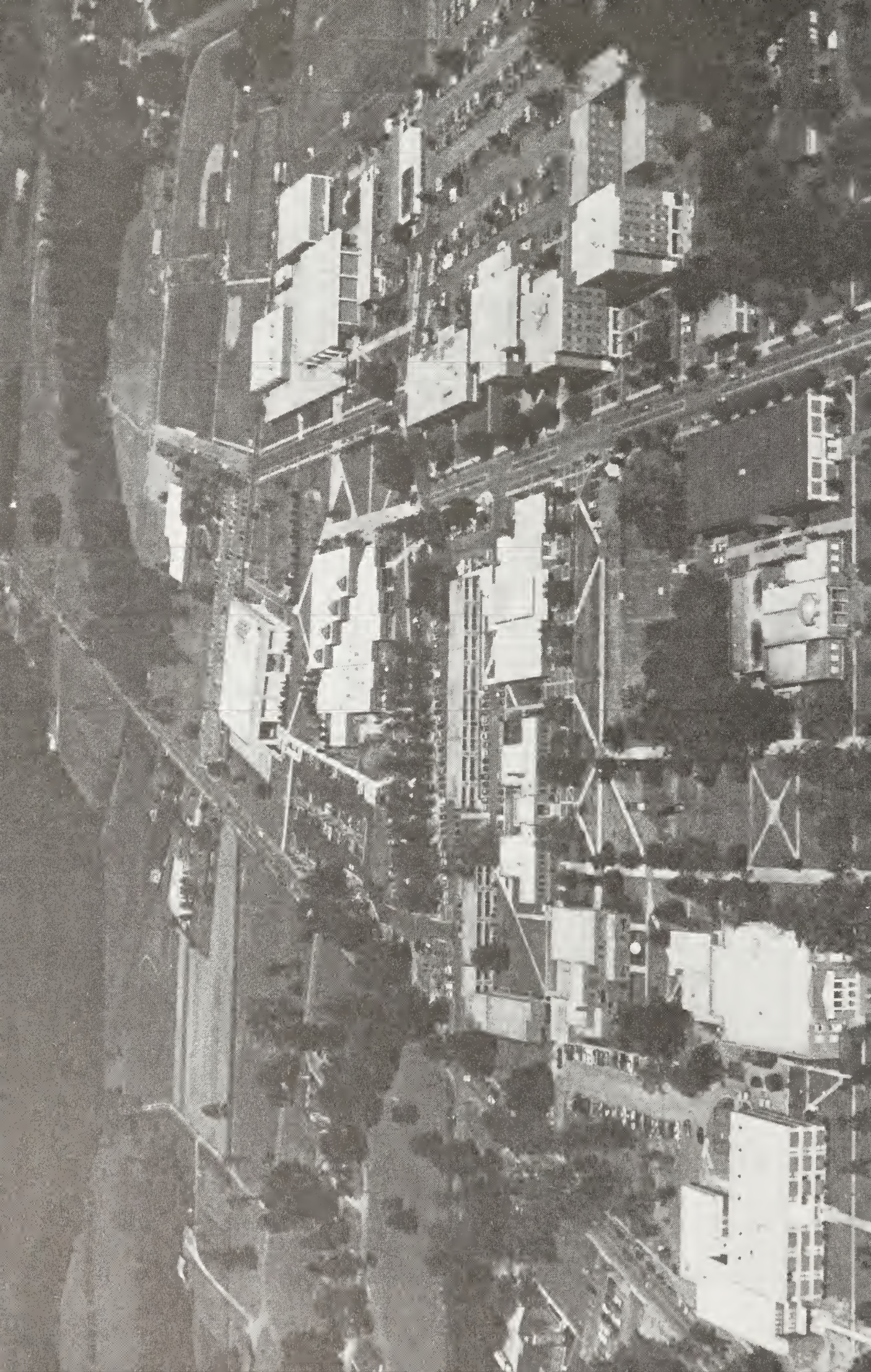
FACULTY SENATE

The Faculty Senate is the primary vehicle of faculty governance at Pembroke State University. The Faculty Senate is an organization of faculty members who have been elected by the Faculty at large, or by the Faculty of one of five divisions: Arts, Education, Letters, Natural Science and Mathematics, and Social and Behavioral Sciences. The Senate is organized into three standing committees. These are the Faculty and Institutional Affairs Committee, the Student Affairs Committee, and the Academic Affairs Committee. Each committee also has subcommittees. Membership

on the subcommittees is not limited to members of the Senate, but is open to all faculty members. The Faculty, through the Senate, is involved in the governance of the total University and is the principal academic policy-making body of the University.

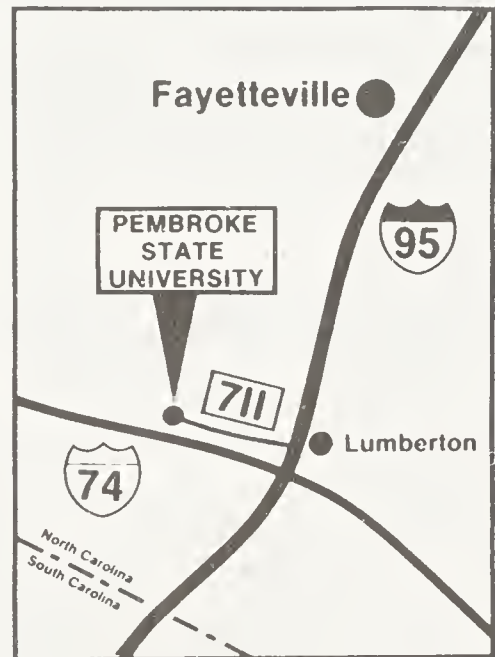
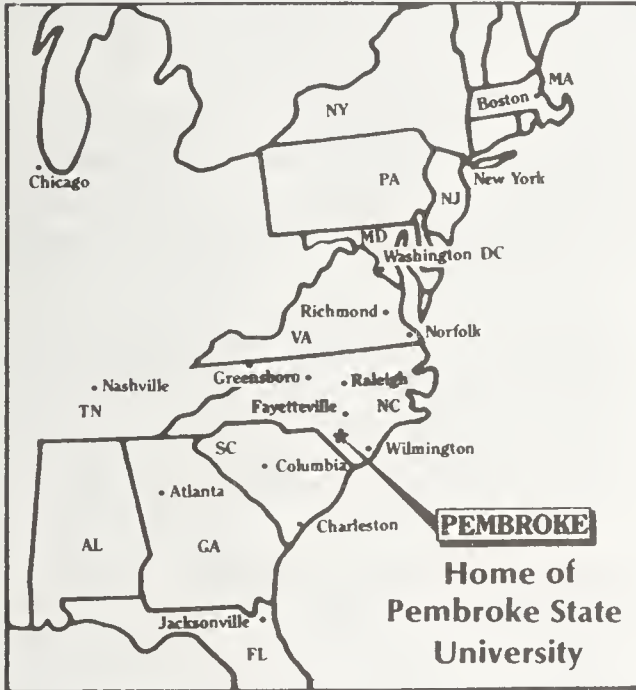


GENERAL INFORMATION



LOCATION

Pembroke State University occupies 108 acres located along the western edge of the town of Pembroke in Robeson County, North Carolina. It is easily accessible by automobile, being only ten miles from Interstate 95 and two miles from U.S. 74. Commercial airline service is available at the Fayetteville Municipal Airport, Grannis Field, which is approximately 30 miles from the campus.



BUILDINGS AND GROUNDS

The Old Main Building (1923) was destroyed by fire in 1973 and restored in 1979. The first floor houses the Media Center, the Television Station (WPSU) and the Native American Resource Center (described below). The second floor provides classroom and office space for the American Indian Studies program, Economic Development, Personnel, Public Information, Institutional Research, Institutional Advancement, Alumni Affairs, and "Strike at the Wind," an outdoor drama performed each summer.

Sampson Hall (1949) houses the university administration offices. It was named for Oscar R. Sampson, a long-time chairman of the University Board of Trustees.

Locklear Hall (1950), named for Anderson Locklear, a leading educator of Robeson County, houses the offices, classrooms, and studios of the Art department.

Moore Hall (1951) contains a 216-seat auditorium, classrooms, offices, a library, and studios used by the Music department. This building was named for Rev. W. L. Moore, the first teacher of the Indian Normal School at Pembroke.

The Chancellor's Residence (1952) was fully renovated and enlarged in 1976. It is located on the western side of the campus.

Jacobs Hall (1961) is a men's dormitory which has a capacity of 134 students. This dormitory was named for Reverend L. W. Jacobs, who served as chairman of the Board of Trustees for thirty years.

The Admissions Building (1965) has been recently renovated.

The D. F. Lowry Building (1965) contains the University Bookstore, Continuing Education and Summer Session, Upward Bound and Student Support Programs, ROTC, and the Print Shop. It was named for Rev. D. F. Lowry, first graduate from the Indian Normal School.

Wellons Hall (1965) is a men's dormitory with a capacity of 100 students. This structure was named for Dr. Ralph D. Wellons, who served as President of the University from 1942 through 1956.

West Hall (1965) is a men's dormitory which offers accommodations to 200 students.

The Music Annex (1965), attached to Moore Hall, contains facilities for the university band and chorus as well as practice rooms.

The University Infirmary (1967) contains examination and treatment rooms, offices for the University Nurse and Physician, and 22 beds for treatment of inpatients.

The Mary Livermore Library (1967) currently houses approximately 200,000 books, 1,000 periodicals, and the University Archives. The library receives relevant U.S. government documents on a depository basis. It was named in honor of the late Mary Livermore, long-time religion professor at PSU.

The Herbert G. Oxendine Science Building (1967) provides classrooms, laboratories, computer rooms, and offices for the Biology, Physical Science, and Mathematics departments. It was named in honor of the late Dr. Herbert G. Oxendine, who served as Academic Dean. An addition (1990) also houses the Computer Center.

The Business Administration Building (1969) provides classrooms and offices for the departments of Business Administration and Economics; Sociology, Social work, and Criminal Justice; and Geology and Geography. It also houses the College Opportunity Program.

The Environmental Building (1969) is a one-story brick structure located behind the Science Building. It is used for animal laboratory experiments.

The Walter J. Pinchbeck Maintenance Building (1978) was named in honor

of the late Walter J. Pinchbeck, long-time PSU superintendent of buildings and grounds. It contains shops, offices, and garage facilities for university vehicles.

The Central Receiving Warehouse is located beside the Maintenance Buildings. All deliveries of supplies and materials are received there. The Department of Purchasing Services is located in this building.

Mary Irwin Belk Hall (1970) is a women's dormitory which offers accommodations to 200 students. It is named in honor of the late Mary Irwin Belk of Charlotte.

North Hall (1972) is a women's dormitory which houses 200 students.

The English E. Jones Health and Physical Education Center (1972) has two gymnasiums, a natatorium which includes a six-lane swimming pool and diving tank, faculty offices, classrooms, a physiology laboratory, and a small lecture hall which seats 120. The building was named in honor of the late chancellor, Dr. English E. Jones, chief executive of PSU from 1962 to 1979.

The Givens Performing Arts Center (1975) houses the dramatic arts and provides an ultramodern amphitheater-style auditorium which will accommodate any performing arts production and which will comfortably seat an audience of seventeen hundred. It was named in honor of Dr. Paul R. Givens, chancellor of PSU from 1979 to 1989.

The Educational Center (1976) contains classrooms, offices, and curriculum and reading laboratories for departments of Education, Psychology, and Philosophy and Religion. The building houses the Graduate Office and the Office of Teacher Education.

The Classroom Building North (1980) is located on the north side of campus and provides classroom and office space for the departments of Communicative Arts, History, and Political Science. It also houses a word processing laboratory, the CMA library, the yearbook, and the student newspaper.

The James B. Chavis University Center (1987) houses student and faculty lounges, post office, cafeteria, snack bar, bowling alley, and TV/game areas. On the second floor are the Counseling and Testing Center, Career Planning and Placement Center, and Student Government offices. The building was named in honor of the present PSU vice chancellor for student affairs, Dr. James B. Chavis.

SUMMER PROGRAM

The University offers two five-week terms and a three-week intra-session. Special workshops and institutes enrich the regular summer program and visiting specialists augment the regular faculty when the need arises.

Through many curricular and extra-curricular activities, the summer session provides special opportunities for teachers and others who are free for summer study. Many courses and workshops are open to individuals not seeking a university degree but interested in gaining personal or professional knowledge.

A student entering Pembroke State University for the first time as a beginning freshman, a transfer student, or a student who is returning to the University after an absence of one semester or more must meet all requirements for admission.

Transient students, students who are regularly enrolled at another institution of higher education and who wish to take courses at Pembroke State University during the Summer Session for transfer to their home institution, must submit a form available from the Summer Session Office. This form must show that they are in good standing at their home institution and have their Dean's or Registrar's permission to enroll at Pembroke State University. Admission to the Summer Session *does not constitute admission to the University.*

In-service teachers who wish to attend the Summer Session for certificate renewal or other purposes must submit an application. The application form and *Summer Session Bulletin* may be obtained from the Summer Session Office.

CONTINUING EDUCATION

Evening Classes: Pembroke State University offers a number of evening classes for individuals who wish to earn degrees as full-time or part-time students. Degree-seeking students should contact department chairman for assistance in working out plans to fulfill degree requirements.

Students admitted for degree-credit course work in the evening must meet minimum University requirements for admission. Applicants meeting minimum University requirements will be admitted as special, part-time or regular students. (See Admissions section of the catalog).

Extension Courses: Extension instruction leads to earned credit toward a degree offered at Pembroke State University but is offered outside the regular session.

Short Courses, Institutes, and Conferences: In addition to helping students meet certificate requirements, the University meets special needs of students through this program and continues the tradition of providing education to all segments of the population.

The University awards *Continuing Education Units* (CEUs) to participants in qualified programs. Continuing Education Units are a part of a nationwide recording system to provide a uniform measure of attainment in non-credit educational programs. One CEU at Pembroke is defined as "ten contact hours of participation in an organized continuing education experience under responsible, capable direction, and qualified instruction."

LIBRARY SERVICES

Named for a long-time religion professor of Pembroke State University, the *Mary Livermore Library* serves as the chief information resource center for the Pembroke campus and also as a link with other libraries in the University of North Carolina System and the nation.

Currently containing approximately 175,000 books and 1,200 periodicals subscriptions, the Mary Livermore Library serves as a depository for selected state and federal documents and houses local history materials.

Library patrons are offered services which include reference and information consultation and assistance, computerized database searching, interlibrary loan, orientation tours, and library use instruction.

Resources available to patrons include print materials for research and recreational reading, print and compact disk indexes, computerized and card catalogs, microform and photo copiers, typing and study rooms, and a computer laboratory. The resources are available to patrons 84 hours a week during academic sessions and on a reduced schedule during holiday and between-session time periods. For information concerning services and hours, please phone the circulation desk at 919-521-4214, extension 516.

Specialized libraries, featuring resources appropriate to particular programs and departments, are found in several locations. In the Education Center, the Department of Education maintains a Curriculum Laboratory and a Test Review Resource Center. In Classroom Building North, the Department of Communicative Arts maintains a library of books, journals, and media resources for English Education and foreign languages. Moore Hall houses a Music Library featuring recordings, scores, and listening facilities.

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ACADEMIC COMPUTING RESOURCES

Pembroke State University recognizes the importance of computer skills. Although no specific computer courses are required, students have many opportunities to gain computer proficiency. In freshman composition, most students receive a word-processing program and learn how to use it for writing papers. All Teacher Education programs require basic computer skills. Students majoring in Business Administration are required to take BUS 109, Business Uses of the Computer. In addition, most departments expect students to use computer software in some of their courses.

Pembroke State University provides its students with a wealth of computer resources. Each classroom building houses one or more microcomputer laboratories, and additional computers are located in the Mary Livermore Library, the Computer Center, and the D.F. Lowry building. Several laboratories are available for evening and weekend use. MS-DOS and Apple 2e are the most common microcomputers, some departments have specialized computers, and MacIntosh and mainframe (VAX 6310) computing is available in the Computer Center.

STUDENT SUPPORT PROGRAMS

Student Support Programs at Pembroke State University are designed to help meet the academic, cultural, and financial needs of participants in order that they

may achieve a high success rate while in school. The four projects included are Upward Bound, Student Support Services, Health Careers Academic Advancement Program (HCAAP), and Clinical Work-Study Summer Health Program (CWSSHP).

Upward Bound is funded to serve seventy-five Robeson County high school students who have the academic potential to become first-generation college students but lack certain skills or motivation to demonstrate that talent. The program consists of an academic and a summer phase. During the academic phase, students are encouraged to achieve their educational potential with the help of weekly tutoring sessions in their high school courses. Assistance is also provided for seniors in completing college and financial-aid applications. During the summer phase, participants live on campus for six weeks and attend a daily schedule of classes in the mornings and afternoons. This summer component familiarizes students with college life motivating students and developing and enriching their basic skills. Recreational and human development activities are also incorporated into the schedule.

Student Support Services is funded to serve one hundred seventy-five college students at Pembroke State University. The program offers the following services:

- instruction in University Orientation
- tutoring on a one-to-one or a small group basis in all majors offered at the University
- reading skills instruction in increasing vocabulary, comprehension, and rate
- study skills assistance in developing techniques of note-taking and test-taking
- assistance in applying for financial aid and scholarship programs
- guidance in academic, vocational, and personal/social concerns
- opportunities to participate in cultural activities
- access to reference and resource materials, which include magazines, paperbacks, and a file on current events.

North Carolina Health Careers Access Program, Clinical Work-Study Summer Internship Program, and the Summer Program for High School Students interested in a health career, are funded by UNC General Administration and the US Department of Health and Human Resources, Bureau of Health Professions, Rockville, Maryland. The main objective of these programs is to recruit minority and disadvantaged youth into pre-health professions programs or health professional schools through academic advisement, career counseling and enrichment activities. Students are exposed to a resource library of information on health careers, financial aid, visits to major medical centers, study materials for entrance examinations, and special internships with local health care agencies. Any student interested in a health profession should contact or visit the Health Careers Recruitment Office, D.F. Lowry Building, 521-4214, ext. 590.

ADVISEMENT AND RETENTION

Advisement and Retention focuses University resources to help individual students complete their work at Pembroke State University.

Through the *Early Alert Program*, a professor or staff member may recommend that a student get help with a problem that threatens the student's academic success.

Continued absence from class is usually the first and most significant indication that a student should be referred. The Office of Advisement and Retention works with the student to determine appropriate help and draws on existing programs and offices to find a workable solution.

Through the *Student Advocacy Program*, any student who has become confused or frustrated by university practices may request that the Office of Advisement and Retention act as intermediary, locate assistance or information, or provide academic advisement.

COMPUTER CENTER

The Computer Center is located on the first floor annex of the Science Building. With a staff of 12 full-time employees, the Center handles the academic and administrative computing for the University. The Center houses a VAX 8250, a VAX 6310, a Data General S/140, and one of the campus microcomputer labs. With our connection to LINC NET, which is a statewide data network, we have access to a number of other computer installations around the state. There are also desktop publishing and optical scanner capabilities within the Center for faculty and staff.

NATIVE AMERICAN RESOURCE CENTER

The Native American Resource Center, on the first floor of the Old Main building, offers a rich collection of authentic American Indian artifacts, handicrafts, art, books, cassettes, record albums, and filmstrips about the Native Americans, with emphasis on the Lumbee Indians of Robeson County. An exciting variety of exhibits is on display, including prehistoric tools and weapons, 19th century Lumbee household and farm equipment, and contemporary Indian art. Indian cultures from all sections of the United States, Canada, Central America, and South America are represented by characteristic artifacts.

WPSU TELEVISION STATION

Pembroke State University operates WPSU-TV, a cable casting facility that serves Pembroke, Lumberton, Charlotte, Greensboro, Rockingham, Fayetteville, Hope Mills, and Spring Lake. WPSU-TV is operated completely by university students and also supports the academic program in Broadcasting by providing a working laboratory for practical experience.



THE ADMISSIONS PROCESS

UNDERGRADUATE ADMISSIONS

Pembroke State University welcomes applications from persons who have earned a high school diploma, or its equivalent, and whose academic preparation and aptitude predict success in higher education. The University's Office of Admissions processes and individually evaluates all applications that are submitted. No single consideration dictates decisions on applications; instead, numerous factors and their relationships to one another enter into such decisions. All applicants demonstrating that they can profit from and succeed in undergraduate studies qualify for admission to the University.

Any student who supplies false or misleading information or conceals pertinent facts in order to secure admission to Pembroke State University may be denied admission or, if admitted, may be immediately dismissed from the University. Such a student may be ineligible to receive any credit from Pembroke State University.

Qualified applicants are admitted in the following categories:

1. Entering Freshmen
2. New Transfer Students
3. Re-Enrolling Students
4. Special Students
 - a. Enrichment
 - b. Certification/Teacher Renewal
 - c. Non-Traditional
 - d. Second Degree
 - e. Transient
5. Foreign Students

Students may enter at the beginning of any semester or summer term. The application deadline for undergraduate admissions for the fall semester is July 15; the deadline for the spring is December 1. Also the deadlines for summer terms I and II are May 15 and June 15 respectively.

Requests for general information, brochures, catalogues, admissions video, and application forms should be addressed to the Director of Admissions. Completed application forms and all supporting documents such as test scores, official high school, college, and university transcripts, and a non-refundable \$15.00 application fee, should be forwarded to the Office of Admissions. Prospective students, parents, and student organizations may request the temporary use of our admissions video by contacting the Office of Admissions.

All new students, and all re-enrolling students who have been out of Pembroke State University for one year, who plan to take 7 or more credit hours during their initial semester are required to complete a medical history form before registering for classes. This form may be obtained from the Office of Admissions and should be returned to the University Infirmary prior to registering for classes.

ENTERING FRESHMEN

Applicants for the freshmen class must be graduates of an approved or accredited high school. Non-graduates must possess a high school equivalency certificate and

present evidence of maturity and the potential to achieve success in a university environment.

High School transcripts and SAT or ACT scores must be received prior to a determination of an applicant's status. A predicted grade point average is computed on the basis of the high school class rank and the SAT or ACT scores for each applicant. The Admissions Policy requires one of three possible decisions for each applicant:

1. Applicants who have satisfactory high school records and appropriate SAT or ACT test scores and who meet the minimum admissions requirements, including course selection and class rank, will be accepted for admission.
2. Applicants whose records and test scores do not meet the minimum requirements will be denied admission.
3. Applicants whose records and/or test scores meet, but not all, of Pembroke State University's regular admission standards may be offered admission to the University's summer College Opportunity Program. (A detailed description of this program is on page 320.)

MINIMUM ADMISSIONS REQUIREMENTS AT THE 16 CAMPUSES OF THE UNIVERSITY OF NORTH CAROLINA

For the *class of 1990 and beyond*, the following courses will be required for admission, in addition to an institution's own specific requirements:

In *English*, four course units emphasizing grammar, composition and literature;

In *mathematics*, three course units including *algebra I*, *algebra II*, and *geometry*, or a higher level mathematics course for which algebra II is a prerequisite:

In *science*, three course units including

—at least one unit in a life or *biological science* (for example, biology)

—at least one unit in a *physical science* (for example, physical science, chemistry and physics) and

—at least one *laboratory course*;
and

In *social studies*, two course units including one unit in *U.S. history*, *but an applicant who does not have the unit in U.S. history may be admitted on the condition that at least three semester hours in that subject be passed by the end of the sophomore year*.

In addition, it is recommended that prospective students complete at least two course units in *one foreign language*, and take *one foreign language course unit and one mathematics* course unit in the twelfth grade. Course units as defined in these requirements may include those high school level courses taken and passed by an applicant after graduating from high school, as well as those taken while enrolled as a high school student.

In addition, it is recommended that prospective students; complete at least two course units in *one foreign language*, and take *one foreign language course unit and one mathematics* course unit in the twelfth grade.

NEW TRANSFER STUDENTS

1. Students seeking to transfer from other collegiate institutions must furnish an official transcript from each institution attended. The transcripts must indicate a cumulative “C” (2.0) average on all work attempted prior to entering Pembroke State. Courses satisfactorily completed in regionally accredited institutions are evaluated in terms of courses offered and curriculum selected at Pembroke State.
2. An official high school transcript is required.
3. The student must attain at least a grade of “C” (2.0) in a course in order for that course to be allowed for transfer credit at Pembroke State. Grades from transferred courses will **not** count toward the student’s cumulative quality point average at Pembroke State.
4. Transfer applicants must be immediately eligible to return to the last institution attended.
5. Transfer applicants who graduated from high school in the year 1988 and beyond must meet the minimum course requirements outlined in the previous sections. (See Minimum Admissions Requirements) For those students who do not meet these requirements, six (6) semester hours must be earned before admission at an accredited college or university in the following areas: English, Math, Science, Social Science, and electives.
6. Each transfer applicant must submit a completed health record after academic approval has been received by the applicant.
7. All transfer students entering PSU must attend a transfer orientation designed to acquaint the student with the academic, co-curricular, and social life of the University and to gather information to assist in the student’s academic advancement.

Because of differing admission requirements, transfer applicants who are candidates for teacher certification degrees should refer to the admission requirements stipulated for the Teacher Education Program.

NOTE: Prospective students who have attended an accredited college but who have earned less than 30 semester hours of transferable credit must meet both freshman and transfer admission requirements. This means that in addition to following the procedures for freshmen, they must present a transcript showing a 2.0 average on all college work. In addition, such applicants must be eligible to return to the institution last attended.

The classification of transfer students (freshman, sophomore, junior, or senior) is

determined by the number of transfer credit hours accepted by Pembroke State University. The maximum transfer credit hours accepted from a two-year institution is 60 semester hours, and no student who has attained junior status will be allowed to transfer credit for any college work completed after that time in a two-year institution. Students attending a four-year institution prior to attending a two-year institution should consult the Office of Admissions regarding credits allowed. Although there is no limit on credit hours accepted from a four-year institution, a 30-hour residency is required to graduate from Pembroke State University.

300-400 level courses from two-year community colleges will receive elective credit only. Technical school course credit will not transfer, unless the school and PSU have an agreement to honor such credits.

RE-ENROLLING STUDENTS

Students who have interrupted their course of study for at least one semester must apply for readmission through the Office of Admissions. Transcripts of any academic work completed in the interim at any other institution must be provided prior to approval for readmission. Students who have left the University as a result of an academic deficiency should review the policy on Minimum Scholastic Requirements.

SPECIAL STUDENTS

Enrichment

Applicants not enrolled in degree programs at other institutions who wish to complete courses at Pembroke State University for personal or professional enrichment may qualify for admission as special students. Such applicants must complete an application for admissions and submit the appropriate transcripts or documentation required. Students in this category cannot enroll for more than six (6) hours a semester. Continuation of enrollment in additional courses requires the approval of the Office of Admissions. These students enroll without entering degree programs, and they may not later become degree candidates unless they have been admitted as regular students. Students under academic suspension from any university are not eligible to enroll as special students.

Teacher Certification Only

Those individuals who already have a baccalaureate degree may be admitted to earn teacher certification. In addition to applying to Pembroke State University through the Admissions Office, such individuals must also contact the Director of Teacher Education to design an individualized program. All teacher certification candidates must meet the admission and retention standards of the Teacher Education Program and the National Teachers Examination requirements established by the State Board of Education. See Teacher Education Program for further information.

Non-Traditional

Pembroke State University adopted a policy in March, 1974, for students who have graduated from high school and are at least 21 years of age. These students may enter the University without the requirement of standardized admissions tests such as the Scholastic Aptitude Test (SAT) or American College Test (ACT). The provision

allows these applicants to be admitted as non-traditional students. Such applicants must complete the application for admissions and submit the necessary transcripts or documentation required.

Second Degree

Applicants who wish to enroll at the university to complete a second undergraduate degree must complete the application for admissions, submit a \$15.00 application fee and provide transcripts for all attempted college credit. (For more information, see Requirements for a Second Baccalaureate Degree.)

Transient Students

Transient Students are students enrolled elsewhere who qualify to study for one semester or summer at Pembroke State University and to transfer credits earned to the institutions at which they are pursuing degrees. To gain admission as transient students, applicants must be in good standing at and be eligible to return to their parent institutions. They must also have permission from those institutions to schedule study at Pembroke State University. Transient students do not pay an application fee.

FOREIGN STUDENTS

Applicants from non-English speaking nations must provide evidence of proficiency in the English language with their applications for admission to Pembroke State University. Scores on the Test of English as a Foreign Language (TOEFL) or the Michigan Test are required; no applications for admission are complete without such scores, and no Form I-20 will be authorized without them. For students born in non-English speaking nations but educated in senior high schools in the United States, scores on the SAT or ACT can substitute for scores on the TOEFL or the Michigan Test. Each student must submit official proof of financial support and an English translation of all transcripts. It is preferred that all documents be sent to the admissions office six months prior to date of entry.

GRADUATE ADMISSIONS

Inquiries concerning the graduate studies admissions should be directed to the Director of Graduate Studies. Admissions requirements are stated in the **Graduate Programs Section** of this catalog.

BACHELOR OF SCIENCE IN APPLIED SCIENCE PROGRAM

Students who hold an Associate in Applied Science Degree from a community college or technical institute in Business Administration are eligible for admission to this program. The program has four major components: (1) the Associate in Applied Science Degree, (2) the basic studies curriculum of 50 semester hours, (3) an individualized program of study consisting of 15 semester hours at Pembroke State University leading to the Bachelor of Science in Applied Science Degree and (4) 3 hours of free electives. The Associate in Applied Science Degree is required for admission to the program and would constitute the first two years of work toward the Bachelor of Science Degree. The Associate in Applied Science in Business Ad-

ministration is only transferable toward the BSAS program and cannot be applied toward any other degree program at the Pembroke State University. The Basic Studies Program is required of all Pembroke State University graduates and is designed for each student in terms of his prior experience and achievement. The individualized program of study beyond basic studies is based on the student's associate in applied science degree program and is designed to: (1) give the student additional depth in his applied science and related study areas, (2) provide him with the opportunity to explore other study areas, and (3) assist him in the realization of his capacities, interests, and desires. For further information, see Business Administration programs.

NOTE: Students who plan to pursue a graduate degree should consult the Chairman of the Department of Business Administration before undertaking any work in this program.

DEGREE COMPLETION PROGRAM FOR MILITARY PERSONNEL

Pembroke State University provides educational programs for veterans, active military personnel, and retired military personnel who wish to continue their career development in higher education and to complete an educational program leading to a college degree.

In recognition of the educational experience gained by military personnel in their regular training, in service school courses, in USAFI or DANTES courses, and through the College Level Examination Program (CLEP), Pembroke State University will accept transfer credit toward a Bachelor of Arts or Bachelor of Science degree.

1. Men or women who have served one or more years in the armed services will be awarded two semester hours credit for each year of service, up to 12 semester hours of credit, as elective credit.
2. Credit may be awarded for service school courses comparable to those offered by Pembroke State University. The amount of credit granted will be according to the recommendations of the American Council on Education as listed in the most recent edition of *A Guide to the Evaluation of Educational Experiences in the Armed Services*. These recommendations are evaluated in terms of courses offered and curriculum accepted at Pembroke State University.
3. Credit may be granted for work completed with an acceptable rating in USAFI courses that are parallel to courses offered at Pembroke State University provided a transcript of the work is sent directly to the Director of Admissions.
4. Credit may be earned through the College Level Examination Program (CLEP).

In addition to the special provision for granting credit to military personnel for their educational experience, the University will accept transfer credit toward a Bachelor's degree:

1. All transferable work completed in residence at accredited senior institutions of higher education provided the student has an *overall cumulative quality point average* of 2.0;
2. Up to 60 semester hours of work completed in a two-year college provided the student has an *overall cumulative quality point average* of 2.0;

- Up to 24 semester hours of work completed through correspondence and/or extension (with no more than 12 semester hours by correspondence) courses. Work completed in courses offered by Pembroke State University's Continuing Education Division at cooperating technical institutes is not counted as extension work.

COLLEGE LEVEL EXAMINATION PROGRAM

Incoming freshmen may earn up to thirty semester hours of Basic Studies credit through the College Level Examination Program (CLEP) in accordance with the following schedule.

CLEP General Examination	Basic Studies Credit
1. Chemistry	Four semester hours credit for CHM 100; General Chemistry; and four semester hours credit for CHM 101; General Chemistry.
2. English Composition	Three semester hours credit for CMA 105; Composition I; and three semester hours credit for CMA 106; Composition II.
3. Humanities	Three semester hours credit for Art 205; History and Appreciation of Art; and three semester hours credit for Music 230; Introduction to Music Appreciation.
4. Mathematics	Three semester hours credit for Mathematics 105; Introduction to College Mathematics; and three semester hours credit for Mathematics 107; College Algebra.
5. Natural Sciences	Three semester hours credit for Biology 100; Principles of Biology; and three semester hours credit for Physical Science 110; Physical Science I.
6. Social Sciences-History	Three semester hours credit for History 126; Introduction to Early European Civilization; and three semester hours credit for History 127; Modern European Civilization.

A Departmental Test may have to be passed.

Entering freshmen may obtain lists of CLEP testing centers from their high school counselors or by contacting the College Board by writing or calling:

CLEP
CN 6600
Princeton, N.J. 08541-6600
Telephone (609) 921-9000, EXT 8420

ADVANCED PLACEMENT

Pembroke State University participates in the Advanced Placement program of the College Entrance Examination Board. Credit may be earned in various subject matter areas.

Pembroke State University especially welcomes applicants with preparation in Advanced Placement courses. It awards University credit for such preparation according to the following table.

Examination	Score Required	Hours Granted	Courses
Art: History	3	3	Art 205
Art: Studio Art: Drawing	3	3	Art 132
Biology	3	3	Biology 100
Chemistry	3	8*	Chemistry 100, 101
English Language/Composition	3	3	Communicative Arts 105
English Language/Composition	4	6	Communicative Arts 105, 106
English Composition/Literature	3	3	Any 200-level English Literature Course
English Composition/Literature	4	6	Any two 200-level English Literature Courses
French Language	3	3	French 231
French Language	4	6	French 231, 232
French Literature	3	3	French 321
French Literature	4	6	French 321, 322
History: American	3	3	History 101
History: European	3	3	History 126
Mathematics: Calculus AB	3	3	Mathematics 221
Mathematics: Calculus BC	3	3	Mathematics 222
Music: Listening and Literature	3	3	Music 230
Music: Theory	3	6	Music 113, 114
Physics: B	3	6	Physics 150, 151
Physics C: Mechanics	3	3	Physics 200
Physics C: Electricity and Magnetism	3	3	Physics 201
Spanish Language	3	3	Spanish 231
Spanish Language	4	6	Spanish 231, 232
Spanish Literature	3	3	Spanish 331
Spanish Literature	3	6	Spanish 331, 332

*Laboratory notebooks from AP courses will be examined to determine amount of credit.

For general information about Advanced Placement programs, call 606-921-9000, Ext. 8300.

PART-TIME STUDENTS

A part-time student is a student who is regularly admitted to Pembroke State University and is registered for less than 12 semester hours of course work in a Fall or Spring Semester.

Students in a part-time status taking seven or more semester hours are charged all fees; activity and tuition charge is based on the number of semester hours taken. Part-time students taking four to six semester hours will pay a reduced student activity fee.

AUDITING

All persons, whether regularly enrolled in the University or not, who desire to audit a course must secure the permission of the instructor and the Office for

Academic Affairs. Audits may not be added to a student's schedule after the last day to add a class. The fee charged for auditing a course will be the same as if the course were taken for credit.

For non-matriculating students, a copy of the receipt of payment from the Business Office must be filed with the instructor at the beginning of the course. Students who are regularly enrolled at the University must file a copy of the permission letter from the Office for Academic Affairs with the instructor at the beginning of the course.

Audited classes are listed on the permanent record and are designated by the letters "AU". Class participation by and requirements of auditors are at the discretion of the instructor.

RESIDENCE STATUS FOR TUITION PURPOSES

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following.

Residence. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months legal residence means more than simple abode in North Carolina. In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to "maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education." The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residentiary information.

Initiative. Being classified a resident for tuition purposes is contingent on the student's seeking such status and providing all information that the institution may require in making the determination.

Parents' Domicile. If an individual, irrespective of age, has living parent(s) or a court-appointed guardian of the person, the domicile of such parent(s) or guardian is, prima facie, the domicile of the individual; but this prima facie evidence of the individual's domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed prima facie evidence of the applicant child's status if the applicant has lived (though not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.

Effect of Marriage. Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance insure that a person will become or continue to be a resident for tuition purposes. Marriage and legal residence of one's spouse are, however, relevant information in determining residentiary intent. Furthermore, if both a husband and his wife are legal residents of North Carolina and if one of them has been a legal

resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-month requirement for in-state tuition status.

Military Personnel. A North Carolinian who serves outside the State in the armed forces does not lose North Carolina domicile simply by reason of such service. Students from the military may prove retention or establishment of residence by reference, as in other cases, to residency acts accompanied by residency intent. In addition, North Carolina affords tuition rate benefits to certain military personnel and their dependents even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed in and concurrently living in North Carolina, may be charged a tuition rate lower than the out-of-state tuition rate to the extent that the total of entitlements for applicable tuition costs available from the federal government, plus certain amounts based under a statutory formula upon the in-state tuition rate, is a sum less than the out-of-state tuition rate for the pertinent enrollment. A dependent relative of a service member stationed in North Carolina is eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met; these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary. To be considered for this, the student must submit a military residency application.

Grace Period. If a person (1) has been a bona fide legal resident, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state rate for a grace period of twelve months measured from the date on which North Carolina legal residence was lost. If the twelve months ends during an academic term for which the person is enrolled at a State institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence, marking the beginning of the grace period.

Minors. Minors (persons under 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person's degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina

and (2) “begins enrollment at an institution of higher education not later than the fall academic term next following completion of education prerequisite to admission at such institution.”

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least 12 months’ duration. This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary; however, a person deemed a resident of 12 months duration pursuant to this provision continues to be a legal resident of the State only so long as he or she does not abandon North Carolina domicile.

Lost but Regained Domicile. If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a 12-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual 12-month durational requirement. However, any one person may receive the benefit of this provision only once.

Change of Status. A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

Transfer Students. When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence status classification for tuition purposes.

COLLEGE OPPORTUNITY PROGRAM

The College Opportunity Program is designed to admit a limited number of students who meet most, but not all, of Pembroke State University’s regular admission standards. Students are selected on the basis of high school academic record, scholastic standing in the high school graduating class, SAT or ACT scores, and the recommendation of the high school counselor. The application for admission should be filed as early as possible.

The student enters the College Opportunity Program in the summer for a five-week

session including preliminary testing and courses designed for the development of academic skills to prepare him/her for the Fall Semester. The student who successfully completes these summer courses is then eligible to continue in the Fall Semester. In the Fall and Spring Semesters, the student is allowed to register for 12 hours of academic courses and 1 hour courses in Orientation and Physical Education. In addition the student meets regularly with the COP advisor for special advisement and counseling. Each student's academic eligibility is reviewed at the end of the Fall Semester and Spring Semester. If he/she meets the academic eligibility requirements listed under "Academic Eligibility" in the college catalog and if he/she has successfully completed the College Opportunity Program requirements, he/she is admitted to the University as a regular student at the end of the Spring Semester.



ACADEMIC REGULATIONS

ACADEMIC REGULATIONS

Students are expected to learn the University requirements and regulations which are applicable to them, and are individually responsible for meeting all such requirements and regulations.

Before the close of each semester, the student is expected to discharge all financial obligations to the University. A student may not register for a new semester nor receive a degree, certificate, or transcript until all University bills are paid.

CLASSIFICATION OF STUDENTS

Regular students at Pembroke State University are classified according to the number of semester hours they have earned in keeping with the following table:

Less than 30 hours-Freshman
 30 to 59 hours-Sophomore
 60 to 89 hours-Junior
 90 hours to graduation-Senior

STUDENT LOAD

All course work counts toward student load whether the student is enrolled for credit or as an auditor at this or another institution.

Full-time students must carry at least 12 semester hours each semester and may carry 18 semester hours; however, 15 semester hours is the normal load. Students who are on the current Dean's List may take a maximum of 21 semester hours.

Summer session students may carry no more than 7 semester hours each summer session term.

GRADING AND ACADEMIC ELIGIBILITY

Grading System (Undergraduate)

Grade reports are sent to each student at the end of each semester. Mid-term advisory grades may also be sent to some categories of student at the mid-point of the semester.

A letter grade and plus-minus system for evaluating academic performance is used for evaluating all undergraduate students. Each letter grade has a quality point value for each semester hour it represents. The hour and quality points are used in determining a student's grade point average for a semester's work and in averaging grades for all work completed to find a student's cumulative quality point average.

The letter grades and quality points represented by each, as of January 1, 1989, are as follows:

A	=4.0	B-	=2.7	D+	=1.3	P	=0.0
A-	=3.7	C+	=2.3	D	=1.0	I	=0.0
B+	=3.3	C	=2.0	D-	=0.7	W	=0.0
B	=3.0	C-	=1.7	F	=0.0	AU	=0.0

The “P” grade is earned in designated courses and carries semester hours credit. However, the hours are not counted in quality hours. Quality hours are the hours used in figuring quality point averages.

The “I”, or incomplete grade, is given when a student is unable to complete required work because of an unavoidable circumstance such as illness. It is not to be given to enable a student to do additional work to improve a grade. An incomplete must be removed within one semester (excluding summer term) or it will automatically be converted to a grade of “F” by the University Registrar. In determination of quality hours and quality point averages, an “I” is counted as an “F” until it is removed.

When a student withdraws from a course during the designated drop-add period, the “W” grade is assigned. The “W” grade is also used after the drop-add period when a student obtains the signature of his instructor to withdraw from a course prior to and including the last day of the sixth week of the semester. An “F” is given when a student withdraws from a course(s) beginning the first day of the seventh week of the semester. When a student receives a “W” grade, the grade is recorded, but the semester hours attempted are not counted as quality hours.

Audited classes are listed on the permanent record. They are designated by the letters “AU.” The AU’s and W’s will be listed as attempted hours, but not as quality hours for figuring quality point averages.

QUALITY POINT AVERAGE AND SCHOLASTIC STANDING

Scholastic standing at Pembroke State University is based on the quality point average. To figure quality point average, multiply the number of quality hours (attempted hours minus P credits, AU’s and W’s) assigned to each course by the number of quality points received, add the quality points received for all courses, and divide by the number of quality hours.

Example:

	Final					Quality
	Course	Quality		Quality		Points
Course	Grade	Hours	x	Points	=	Earned
Course A	C +	3	x	2.3	=	6.9
Course B	B −	3	x	2.7	=	8.1
Course C	A	1	x	4.0	=	4.0
Course D	P	0*	x	0.0	=	0.0
Course E	F	1	x	0.0	=	0.0
Course F	B	3	x	3.0	=	9.0
Course G	A −	3	x	3.7	=	11.1
Course H	I	<u>2</u>	x	0.0	=	<u>0.0</u>
Total Quality Hrs.		16	Total Quality Pts.			39.1
Quality Point Average = $39.1 \div 16 = 2.44$						

*A grade of P counts as hours earned but not as quality hours and is computed as 0 hours in figuring quality point averages.

A cumulative quality point average is obtained by including in the quality point average calculation the quality hours and quality points received from Pembroke

State University only. For this purpose, only the most recent grade of a repeated course and only the semester hours and quality points corresponding to the most recent grade are used.

MINIMUM SCHOLASTIC REQUIREMENTS

To indicate to a student his/her scholastic standing, four categories have been established: good standing, above QPA minimum (but below 2.0), warning/probation, and suspension. Suspension means a minimum of two semesters separation from the University to allow more maturation in those attributes that enhance the student's academic ability.

Required levels of academic achievement increase progressively over the approximately four years leading to graduation. This is in recognition of the adjustment period of transition from high school to college level, which is sometimes difficult. The total semester hours from all colleges attended will be the basis for determining the required minimum cumulative quality point average. However only those grades earned at Pembroke State University will be used to compute the student's cumulative quality point average. The cumulative quality point averages required are as follows:

Semester Hours Attempted	Minimum Cumulative Quality Point Average
30	1.375
45	1.500
60	1.625
75	1.750
90	1.875
105	2.000

A student who falls below the specified average for the number of quality hours (including transfer quality hours) will be placed on warning/probation and restricted to enrollment of no more than 13 semester hours. A student who has been warned and who fails to bring the cumulative average up to the required minimum by the end of the following semester will be suspended; however, a student who averages at least 2.00 for the warning/probationary semester will be continued on probation even though the cumulative average does not reach the minimum.

After at least two semesters of academic suspension for failure to meet the minimum requirements of quality point ratio, a student may apply for readmission. If readmitted, the student must then meet the minimum quality point ratio requirements at PSU on all quality hours or earn a semester quality point average of 2.0.

Regulations concerning academic eligibility are subject to constant revision and change. In the event of a change all students will conform to the newer regulations.

GRADUATION WITH HONORS

Any senior may be considered for honors who, at the beginning of the last semester of his senior year, has earned at least 45 semester hours of credit in residence at Pembroke State University and who has not received more than two failing grades during his college or university career.

Students who attain a *cumulative quality point average* of 3.9 or higher are graduated *summa cum laude*. Those who achieve a minimum *cumulative quality point average* of 3.7 are graduated *magna cum laude* and students whose *cumulative quality point average* is at least 3.4 are graduated *cum laude*. Cumulative quality point averages are computed at the end of the semester prior to the student's last semester in school.

DEAN'S LIST

Students are eligible for the Dean's List, which is issued at the close of each semester, if they achieve a minimum *semester quality point average* of 3.60 while passing at least 12 semester hours of course work graded by letter grades. (Excluded are courses which are graded pass/fail.)

FRESHMAN ORIENTATION

A summer orientation program is sponsored by the University for all new freshmen. Two programs are held each summer, and students may select the one they wish to attend. The program is designed to acquaint students with the academic, co-curricular, and social life of the University. A battery of required University-administered tests is given to all students during the orientation session.

Freshman Testing Program

Each freshman will take a battery of University-administered tests prior to the student's first registration. No student will be allowed to register without being tested. The tests will be administered during the Freshman Orientation sessions held in the summer. The tests are not entrance examinations and will not deny admission to any student. The purpose of the test is to provide information to assist in advising every student and in planning the student's program.

Students who score below acceptable standards on the University-administered test in Composition will be placed in CMA 104. Students who score below acceptable standards on the University-administered mathematics test will be placed in MAT 104. Students who score below acceptable standards on the reading test will be placed in EDN 104 (College Reading). Students placing in one or more of these courses will be advised to limit their course loads to 12 semester hours in the fall semester and to seek tutorial aid. CMA 104, MAT 104, and EDN 104 do not count toward graduation.

ACADEMIC ADVISEMENT

The University has an Academic Advising system to assist students in their respective academic programs. Each student is assigned to a faculty member who

helps the student plan a program and maintains a record of progress during his or her college career. Although the advisor will guide the student in academic matters, the final responsibility for meeting all academic program requirements rests with the student.

The academic advisor may refer a student to other offices for further services in counseling, career planning and placement, tutoring, and skills development.

REGISTRATION

Each student must complete registration in person. No student is considered to be officially registered until the student has completed registration as outlined below. Students who fail to complete registration as prescribed will have their names dropped from all class rolls. If these students subsequently request to register, they must follow registration procedures just as if they had not started registration before.

The University has a two-phase registration system: the early registration phase and the regular registration phase.

Students currently enrolled at Pembroke State University may complete their registration by: (1) consulting with their advisor during the designated early registration period, (2) obtaining the registration material (Permit to Register Card, and Personal Data Form) from the advisor and preparing their class schedule for the next semester, (3) registering for the approved course work at the assigned major academic department, and (4) paying tuition and fees to the Cashier's Office.

Students entering Pembroke State University for the first time or returning after an absence of one semester or more may complete their registration by: (1) consulting with their advisor during the designated registration period, obtaining a Permit to Register Card and preparing their class schedule for the semester, (2) registering for the approved course work at the assigned major academic department, and (3) paying tuition and fees at the Cashier's Office.

DROPPING AND ADDING COURSES

After a student has completed registration the only way the student's schedule can be changed is through the drop-add procedure. To drop and/or add a course a student must obtain a Drop-Add Form from an academic department, complete the form, have it approved by his or her advisor, obtain the signature of the losing and/or gaining professor, and present the form to the Cashier's Office and the Office of Records and Special Programs.

A student may withdraw from a course after the drop-add period but prior to and including the last day of the sixth week of the semester with a grade of "W" if the student obtains the signature of the instructor.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the last date to withdraw from a class must complete the "Request for Withdrawal from the

University'' form, which is available in the office of Records and Special Programs. The form must be endorsed by the appropriate authorities as indicated on the form and submitted to the Office of Records and Special Programs. Applicable refunds will not be made until the withdrawal process is completed. I.D. cards and meal plans must be given to the cashier before withdrawal is complete.

Only under very unusual circumstances may a student withdraw from the University after the last date to withdraw from a class. The student must meet with the Office of Advisement and Retention, which after consultation with the faculty will establish the validity of the request. Final approval must be granted by the Office for Academic Affairs. This process must be initiated before exam week. Unsatisfactory academic performance by itself is not sufficient basis for being allowed to withdraw officially.

Any student who withdraws from classes without completing the withdrawal procedure will receive a grade of "F" in all courses for which the student is registered.

REPETITION OF COURSES

Any course may be repeated. Semester hours and quality points in courses repeated are counted only once, and most recent grade and the quality points corresponding to the most recent grade are used in computing point averages and meeting graduation requirements.

INDEPENDENT STUDY

A student who wishes to enroll in 499 Independent Study in any department must: (1) be classified as a senior, (2) have a *cumulative quality point average* of 3.0 or better in his major area of study, (3) request independent study in his major area, and (4) submit a *Request for Approval of Independent Study* in triplicate to the Office for Academic Affairs. The form can be obtained from the department head responsible for the student's major area of study. It must be approved by: (1) the professor supervising the student in independent study, (2) the department chairman, (3) the Dean of Records and Special Programs, and (4) the Office for Academic Affairs. The student may elect to work for one, two, or three semester hours of credit.

Upon completion of the independent study, the student must prepare a typewritten report of the study in duplicate. The Supervising professor will evaluate the report and the overall work in the independent study and assign the appropriate grade. A copy of the independent study should be filed in the departmental chairman's office.

CLASS ATTENDANCE

Regular class attendance is important to the educational experience of each student and to the academic integrity of the university curriculum. Students are expected to attend every class beginning with the first session. No matter what the cause, an absence from class does not relieve the student from any course requirement.

Instructors have the discretion to determine how the attendance policy will be implemented in their classes, the circumstance under which make-up work may be

allowed, and whether attendance will be used as a criterion in determining the final grade. Excessive absences may result in failure. Faculty are encouraged to distribute a written statement of their policy.

Students should not enroll in a course if participation in University-sponsored activities will cause them to miss an excessive number of classes, as determined by the instructor.

Students whose absences impair their academic performance may be referred to the Director of Advisement and Retention.

THE PEMBROKE STATE UNIVERSITY ACADEMIC HONOR CODE

I. OVERVIEW

The Pembroke State University Academic Honor Code sets forth the standards of academic honesty and integrity for students at PSU and describes attendant faculty responsibilities. Students and faculty are expected to be familiar with its provisions. This Code defines student behavior which violates the standards (Section III), and enumerates the penalties for violations and the circumstances under which such penalties may be imposed (Section IV).

Section V sets forth the procedures for dealing with cases where a violation of the Academic Honor Code is alleged. Those procedures permit a faculty member to address a student's first violation through discussion with the student. If the student freely admits the offense and accepts the penalty assigned by the faculty member, an agreement settling the matter is signed by both, the faculty member imposes the penalty, and the matter ends (Section V.A.). If PSU records show that the student has previously committed an Academic Honor Code violation, or if the student decides not to admit guilt or accept the penalty, or if the faculty member believes that the seriousness of the offense warrants a more severe penalty than those which may be imposed in the settlement process, the matter must be referred to the Campus hearing Board (Section V.B.) if any penalty is to be imposed. The Campus Hearing Board hears the evidence from the faculty member and student and determines whether the student did commit a violation. If no violation is found, the matter ends and no penalty may be imposed. If the Campus Hearing Board finds that the student did commit a violation, it determines the appropriate penalty (Section V.C.). A student found guilty may appeal the Campus Hearing Board's decision to the Campus Appeal Board (Section V.D.).

II. STATEMENT OF PRINCIPLES

Academic honor and integrity are essential to the existence of a university community. Without maintenance of high standards of honesty, members of the instructional faculty are defrauded, students are unfairly treated, and society itself is poorly served. Maintaining the academic standards of honesty and integrity is ultimately the formal responsibility of the instructional faculty. To meet their responsibilities when academic dishonesty is suspected, individual faculty members must follow the policies and procedures stated in this Code.

Students are also members of the academic community. As responsible members of the University, students are obligated not to violate the basic standards of honor, and they are expected to take an active role in encouraging other members to respect those standards. Should a student suspect a violation of the Academic Honor Code, he/she should make the suspicion known to a member of the faculty or University administration.

Commitment to maintaining and encouraging high standards of academic honesty and integrity is demonstrated in many ways. One manifestation is the policies and procedures governing violation of the standards. Herein contained are the provisions of the PSU Academic Honor Code.

III. DEFINITIONS OF VIOLATIONS

Definitions and/or examples of violations of the Academic Honor Code are as follows.

A. CHEATING:

Intentionally using or attempting to use unauthorized materials, information, notes, study aids or other devices in any academic exercise. This definition includes unauthorized communication (oral and/or written) or receipt of such information during an academic exercise.

B. PLAGIARISM:

Intentionally or knowingly presenting the work of another as one's own (i.e., without proper acknowledgement of the source).

C. FABRICATION AND FALSIFICATION:

Intentional and unauthorized alteration or invention of any information or citation in an academic exercise. Falsification is a matter of altering information while fabrication is a matter of inventing or counterfeiting information for use in any academic exercise.

D. ABUSE OF ACADEMIC MATERIALS:

intentionally or knowingly destroying, stealing, or making inaccessible library or other academic material.

E. COMPLICITY IN ACADEMIC DISHONESTY:

Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

IV. PENALTIES

All acts of academic dishonesty violate standards essential to the existence of any academic community. Some first offenses are properly handled and remedied by the faculty member teaching the specific course in which they occur. The faculty member must use the settlement procedure described in Section V to handle such an offense. The penalties which may be assessed are limited to the following: (a) a formal warning/reprimand, (b) a reduced grade (including F) for the assignment, (c) a reduced grade (including F) for the entire course. Whatever the penalty, a signed

form regarding the settlement will be kept for five years (or until the student graduates) in the Office for Student Affairs. The purpose of this record-keeping is to be sure students who violate the Academic Honor Code a second time are dealt with appropriately. A second purpose is to deter students from repeating offenses.

All second offenses and some first offenses have import beyond the specific course in which the violation occurred. The Campus Hearing Board handles such violations, and the possible penalties are greater. In these cases the Campus Hearing Board may impose any of the penalties listed above (a,b,c) and/or the following: (d) disciplinary suspension from the University for a designated period of time (one semester, one year, etc.); or (e) dismissal from University for an indefinite period of time.

In all determinations of penalty, the following factors should be considered:

1. The nature and seriousness of the offense.
2. The injury or damage resulting from the misconduct.
3. The student's motivation and state of mind at the time of the incident.
4. The student's prior disciplinary record.
5. The student's attitude and demeanor subsequent to the violation.

V. PROCEDURES FOR HANDLING CASES

A faculty member responsible for assigning final grades in a course may acquire evidence directly, or through information supplied by others, that a student violation of the Academic Honor Code may have occurred. After collecting the evidence available, the faculty member should determine whether it warrants proceeding to the next level of inquiry.

If the faculty member determines that the evidence is sufficient, he/she should contact the Vice Chancellor for Student Affairs, who will determine from his records whether the student has previously admitted to or been found guilty of an Academic Honor Code violation. If the suspected violation would be a second offense, the faculty member must take the case of the Chairperson of the Campus Hearing Board. If the suspected violation would constitute a first offense but one which the faculty member considers the appropriate penalty to be more severe than an F in the course, the case must be brought to the Chairperson of the Campus Hearing Board. If the faculty member believes, however, that the suspected violation would be remedied by a penalty no greater than F in the course, the settlement procedure may be used to conclude the matter and provide a record (see Section IV. Penalties).

Once a student has received notice that he/she is charged with an Academic Honor Code offense, the student is not permitted to withdraw from the course in order to avoid the appropriate penalty.

A. Settlement Procedure

The faculty member meets with the student and presents the evidence of an Academic Honor Code violation, then request an explanation from the student. After hearing the explanation, if the faculty member determines that a violation has occurred, he/she fills out and signs the approved form distributed to all faculty

members, noting the penalty to be applied, and gives the form to the student. The student has three school days to consider and seek advice on whether to admit guilt and accept the penalty by signing the form. If the student agrees to sign, he/she does so in the presence of the faculty member who then implements the penalty. The faculty member forwards the settlement form to the Vice Chancellor for Student Affairs, who keeps a record of first offenses for five years (or until the student graduates), and thus the matter is ended. If the student decides not to admit guilt or not accept the penalty, the faculty member must take the case to the Chairperson of the Campus Hearing Board, if any penalty is to be imposed.

B. Campus Hearing Board

The Campus Hearing Board is made up of three faculty members and one administrative member appointed by the Chancellor of the University, and three students appointed by the President of the Student Government Association. The conduct of Hearings is outlined in Article IV, Section C.2 of the Pembroke State University Student Constitution.

Where a student is not found in violation of the Academic Honor Code, a written report is prepared and sent to the Vice Chancellor for Student Affairs, who will maintain a confidential file of materials related to the case. No part of that file becomes part of the student's disciplinary record. The case is closed, and no penalty may be imposed.

Where a student is found guilty of violating the Academic Honor Code, the Campus Hearing Board determines the appropriate penalty. Both student and faculty may submit evidence and make statements concerning the appropriate sanctions to be imposed. The Vice Chancellor for Student Affairs will supply the Student's previous Academic Honor Code disciplinary record.

At the conclusion of the evidence of the appropriate penalty, the Campus Hearing Board determines the penalty, and prepares a written report to the student and the Vice Chancellor for Academic Affairs, who notified the faculty member and the Vice Chancellor for Academic Affairs of its contents. If a penalty of a grade of F in the course or less is to be assigned, the faculty member imposes that penalty determined by the Campus Hearing Board and no other penalty. If a greater penalty is deemed appropriate, the Vice Chancellor for Student Affairs implements the penalty indicated in the report. The student will be notified within five days of the Campus Hearing Board's determination of penalty.

C. Campus Appeal Board

A student found guilty has the right of appeal, and is permitted five school days from the date the student receives notice of the report of the Campus Hearing Board to file a written notice of appeal with the Vice Chancellor for Student Affairs. Failure to do so will render the decision on the Campus Hearing Board final and conclusive.

If the request for appeal has been timely filed, the Vice Chancellor for Student Affairs shall deliver this request as well as materials related to this case to the Campus Appeal Board.

The composition of the Campus Appeal Board and its adjudicatory powers are described in Article V, Section C.1 of the Pembroke State University Student Constitution. For Academic Honor Code violations and their appeals, the Vice Chancellor for Academic Affairs or his designate will represent the Chancellor of the University.

VI. Advice To The Faculty

1. Faculty members should outline their expectations pertaining to the Academic Honor Code at the beginning of each course. In doing so they might authorize or prohibit specific forms of student conduct which are unique to their courses of disciplines. They should refer students to this Academic Honor Code. It is recommended that the following statement be included in all course syllabi:

Student Academic Honor Code

Students have the responsibility to know and observe the PSU Academic Honor Code. This code forbids cheating, plagiarism, abuse of academic materials, fabrication, or falsification of information, and complicity in academic dishonesty. Any special requirements or permission regarding academic honesty in this course will be provided to the students in writing at the beginning of the course, and are binding on the students. Academic evaluations in this course include a judgement that the student's work is free from academic dishonesty of any type; and grades in this course therefore should be and will be adversely affected by academic dishonesty. Students who violate the code can be dismissed from the University. The normal penalty for a first offense is an F in the course. Students are expected to report cases of academic dishonesty to the instructor.

2. Faculty members should take preventive measures to avoid cases of academic dishonesty (e.g., examinations should be carefully protected).

REQUIREMENTS FOR GRADUATION

Each candidate for graduation must meet all of the following requirements:

1. Have a minimum of 128 semester hours of course work (can be completed in eight semesters with average of 16 hours per semester);
2. Have successfully completed the Basic Studies Program;
3. Earn a grade of "C" (2.0) or better in both English composition courses, CMA 105 and CMA 106;
4. Have successfully completed a program for an academic major;
5. Have a minimum overall cumulative quality point average of 2.0 and have a minimum cumulative quality point average of 2.0 in all work attempted at Pembroke State University;
6. Have a minimum overall cumulative quality point average of 2.0 in the major field of study;
7. Complete a minimum of 9 semester hours above the Basic Studies Program level in the major field of study at Pembroke State University if the student transferred to Pembroke;
8. Be registered during the academic year in which the student's graduation occurs;

9. Complete the last 30 semester hours in residence at Pembroke State University;
10. Count no more than 24 semester hours of correspondence and/or extension credit (with no more than 12 semester hours of correspondence) from regionally accredited institutions toward a degree, provided that such correspondence credit is approved by the Office of Records and Special Programs and will not be applied to satisfy specifically stated course requirements in major programs; NOTE: Any student needing to take correspondence work after admission to study at Pembroke State University may be permitted to do so only after obtaining formal approval from the student's academic advisor, from the Office for Academic Affairs, and from the Office of Records and Special Programs.
11. Have the recommendation of the faculty;
12. Make application for the degree no later than the end of registration for the last semester prior to the completion of graduation requirements;
 - a. The Degree Application Form can be obtained from the Office of Records and Special Programs;
 - b. A non-refundable graduation fee of \$25 must accompany the application;
 - c. If a candidate fails to qualify after filing the student's application and fee before commencement, but does qualify at some later time, the student must submit another application and another fee;
 - d. If the candidate fails to meet this requirement as specified, the student must wait until the next commencement to receive his or her degree;
13. Satisfy all financial obligation to the University.

All candidates are encouraged to complete a file in the Career Planning and Placement Center.

A student who completes graduation requirements at the close of the Spring Semester is required to attend commencement, which is held at that time. A student who completes graduation at any other time will have option of returning to participate in commencement or of receiving the diploma in absentia. If the student elects to receive the diploma in absentia, the student must submit to the Dean of Records and Special Programs by April 15 a written request which indicates the address to which the diploma will be mailed. When the request is made as indicated above, the diploma will be mailed after the graduation ceremony.

MISCELLANEOUS

Academic eligibility for a student shall be determined by current regulations.

A student must choose to meet the *graduation requirements* of one *catalog*. The student may elect to meet the requirements which were published in the University catalog which was current at the time the student entered this institution or a subsequent catalog; however, the student will not be allowed to meet some of the requirements of one catalog and some of the requirements of another catalog.

A student whose attendance at Pembroke State University is interrupted for more

than one semester must meet the requirements published in the catalog which is in effect at the time the student resumes studies or those of a subsequent catalog.

Courses completed in other accredited colleges and universities for which transfer credit is requested will be evaluated in terms of Pembroke State University's academic regulations and curriculum, and in terms of the student's proposed program at Pembroke. Grades from transferred courses will **not** count towards the student's cumulative quality point average at Pembroke State.

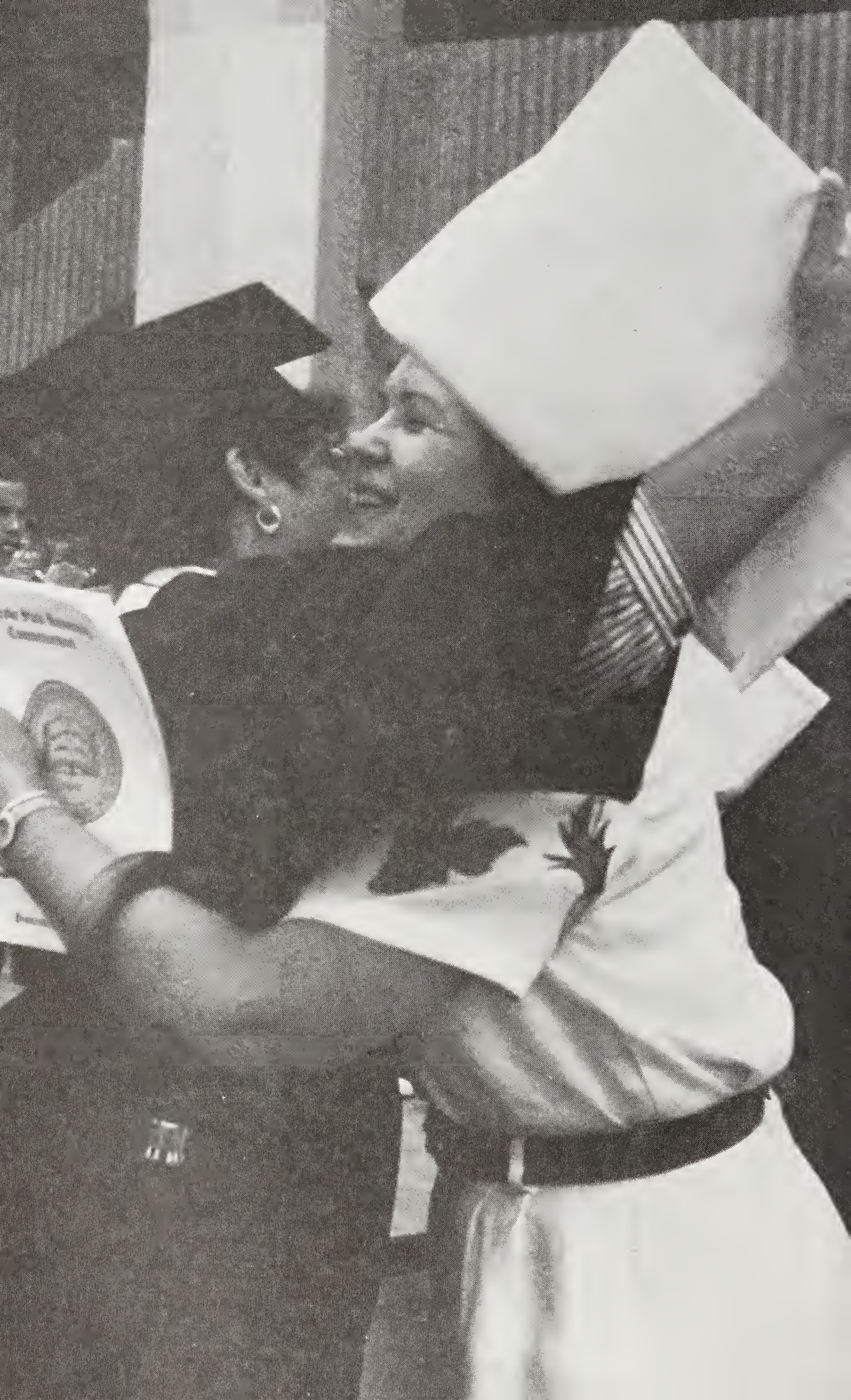
After achieving junior status, no student may transfer credit for any work taken in a two-year college nor may any student who has attained junior status receive transfer credits for any work taken after that time in a two-year college.

Fractional credit will not be granted for partial completion of any course.

Students who wish to enroll in courses at other institutions to apply toward a degree at Pembroke State University must receive the written approval of their major advisor and the Registrar before registering for the course(s) in order for such credit to be acceptable to Pembroke State University. This permission must be on file in the Registrar's Office.

Permission to take courses at other colleges or universities while a student is on probation or is socially or academically ineligible to attend Pembroke State University will not be granted.





CURRICULA AND DEGREES

CURRICULA AND DEGREES

Pembroke State University operates on the traditional two-semester system and offers an extensive summer program designed to permit the academic acceleration of regular university students and to serve the needs of public school teachers. The Summer Session is divided into two terms.

B.A. AND B.S. DEGREES

The University offers various liberal arts programs leading to the Bachelor of Arts or Bachelor of Science degree and programs for teacher certification in several fields. Candidates who successfully complete the University requirements in the following fields receive the Bachelor of Arts degree:

American Indian Studies, B.A.

Art:

Art, B.A.

Art Education, B.A.

Business Administration:

Economics, B.A.

Communicative Arts:

Literature, B.A.

English Education, B.A.

Theatre Arts, B.A.

Contracted Major, B.A.

Arts Management

Broadcasting

Journalism

Public Relations Communication

History:

History, B.A.

Social Studies Education, B.A.

Music:

Music Industry, B.A.

Music Performance, B.A.

Philosophy and Religion:

Philosophy, B.A.

Religion, B.A.

Political Science:

Political Science, B.A.

Pre-Law, B.A.

Public Administration, B.A.

Sociology, Social Work, & Criminal Justice:

Criminal Justice, B.A.

Sociology, B.A.

Candidates who successfully complete the University requirements for the following receive the Bachelor of Science degree.

Biology:

Biology, B.S.

Medical Technology, B.S.

Biology Education, B.S.

Business Administration:

Accounting, B.S.

Management, B.S.

Business Education, B.S.

Business, Applied Science, B.S.A.S.

Education:

Elementary Education:

Elementary Education (K-6), B.S.

Middle Grades Education (6-9), B.S.

Special Education:

Learning Disabilities, B.S.

Mental Retardation, B.S.

Health, Physical Education, & Recreation:

Health, Physical Education, & Recreation,

Physical Education (K-12), B.S.

Recreational Management, B.S.

Mathematics & Computer Science:

Computer Science, B.S.

Mathematics, B.S.

Mathematics Education, B.S.

Music:

Music Education:

Instrumental, B.S.

Vocal, B.S.

Keyboard, Instrumental, B.S.

Keyboard, Vocal, B.S.

Physical Science:

Chemistry, B.S.

Medical Technology, B.S.

Psychology, B.S.

Science Education, B.S.

Sociology, Social Work, & Criminal
Justice:

Social Work, B.S.

Candidates who hold the Associate in Applied Science Degree and who successfully complete the additional University requirements receive the Bachelor of Science in Applied Science Degree.

UNIVERSITY ORIENTATION REQUIREMENT

A one-semester hour University orientation course (ORI 100) is required of all freshmen during their first fifteen credit hours of course work at the University.

MASTER'S DEGREE PROGRAMS

Pembroke State University offers two Master's Degrees:

Master of Science in Administrative Studies (M.S.A.S.)

Master of Arts in Education (M.A.Ed.)

The University offers various master's programs leading to the Master of Arts in Education Degree. Candidates who successfully complete the University requirements in the following fields receive the Master of Arts in Education Degree:

Educational Administration and Supervision

Elementary Education

Elementary Education (K-6)

Reading Education

English Education

Mathematics Education

Middle Grades Education (6-9)

Descriptions of graduate curricula and degrees are in the **Graduate Programs** section.

TEACHER CERTIFICATION PROGRAMS

The North Carolina State Board of Education has approved the following teacher certification programs at Pembroke State University:

UNDERGRADUATE PROGRAMS

Elementary Education (K-6)

Middle Grades Education (6-9)

Secondary Specializations (9-12)

Biology

Business Education

English

Mathematics

Science Education

Social Studies

Special Areas (K-12)

Art

Music

Physical Education

Exceptional Children

Learning Disabilities

Mental Retardation

GRADUATE PROGRAMS

Elementary Education:

Elementary Education (K-6)

Reading Education (K-12)

Middle Grades (6-9)

Secondary Specializations (9-12)

English

Mathematics

Programs leading to certification are available in the following **non-teaching** areas:

UNDERGRADUATE LEVEL PROGRAM

School Social Service Worker

GRADUATE LEVEL PROGRAMS

School Administrator

Curriculum-Instructional Specialist

TEACHER EDUCATION PROGRAM

TEACHER EDUCATION MISSION STATEMENT

The Teacher Education Program at Pembroke State University prepares and promotes the further development of **effective professionals** for service as teachers, administrators, or student support personnel in the schools of North Carolina and the nation. The Teacher Education Program, in addition, is designed to support and enhance the University's mission, which calls for a balanced program of teaching, research, and service, and shares its commitment to academic excellence, cultural diversity, and lifelong learning.

In support of this mission, the Teacher Education Program is committed to preparing and promoting the further development of **effective professionals** who:

Knowledge and Skills

- have the knowledge, skills, awareness, ideals, and values to function as educated citizens and to make connections among subjects and to the world at large
- at the undergraduate level, demonstrate knowledge of subject matter and a variety of effective instructional practices, and at the graduate level, demonstrate greater professional competency, advanced knowledge of scholarship in the area(s) of specialization, and ability to carry out research
- are able to communicate effectively and clearly in writing and speech
- are able to assess student learning, design and implement suitable learning experiences, and adapt instruction to meet the needs of individual learners and situations

Personal Attributes

- display appropriate personal qualities including a positive attitude, self-confidence, self-motivation, pride in the profession, and high ethical standards
- enjoy working with children and adolescents
- respect and appreciate individual and cultural differences and treat others with respect and fairness
- communicate to others that subjects, schools, and learning are valuable

Professional Development

- collaborate effectively with colleagues, parents, and the larger community
- are lifelong learners who can be flexible in adapting to diversity and to changes in knowledge, in society, and in student backgrounds and abilities.

UNDERGRADUATE TEACHER EDUCATION PROGRAM

Curricula for the undergraduate teacher education program at Pembroke State University have been designed to prepare effective professionals who will be able to serve in schools in North Carolina as well as other sections of the nation. The knowledge, skills, and understandings necessary for effective practice are woven throughout each curriculum, which includes a Basic Studies component, a Professional Studies component, and a Major/Specialty Studies component. The Basic Studies component includes study of the fine arts, literature, history, philosophy/religion, the social sciences, the natural sciences, mathematics, and physical education. The Professional Studies component includes study of the historical, social, psychological, and philosophical foundations of education; human growth and development; learning theories; effective instructional practices; exceptional children; teaching communication skills; and computers in education. Field experiences, culminating in a minimum 11-week student teaching experience, allow prospective teachers to explore the teaching/learning environment and to relate theory to practice. The third and most diverse component is the Major/Specialty Studies. Unique to each program area, this component is designed to provide prospective teachers the in-depth understanding, skills, and knowledge specific to the chosen specialty/certification area. For a list of certification programs offered, see p. 75. Outlines of the various program requirements may be found in the section related to the specific program chosen.

**SPECIAL REQUIREMENT FOR TEACHER EDUCATION MAJORS
(ACADEMIC CONCENTRATION)**

As required by the Board of Governors of The University of North Carolina, all freshman entering the Fall of 1989 and thereafter seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education must complete a concentration in basic academic discipline as part of their degree requirements. The 24-27 hours comprising these

academic concentrations have been selected to provide students with a cohesive study of a basic academic discipline. Academic concentrations are available in American Indian Studies, Art, Biology, Communicative Arts, Geography, Geology, History, Mathematics, Music, Physics, Political Science, Psychology, and Sociology. Students may choose to earn a second major of 30 hours in Philosophy or Religion rather than an academic concentration. A list of courses required for each academic concentration is available from the appropriate department and appears among the program description for each department.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

The Teacher Education Committee selectively admits and periodically evaluates students in the Teacher Education Program on the basis of scholastic aptitude and suitability for teaching. NOTE: Admission into the University as a student does not automatically satisfy eligibility requirements for admission to the Teacher Education Program. Eligibility for admission into the Teacher Education Program will be determined by regulations current at the time initial application is made for admission into the program.

INITIAL ADMISSION TO THE PROGRAM

To be eligible for admission to the Teacher Education Program an individual must:

1. Have not more than nine hours of the Basic Studies requirements remaining.
2. Have earned a "C" (2.0) or better in EDN 227 and EDN 202.
3. Have earned a grade of at least a "C—" (C if the course was repeated) in all required major and/or professional coursework completed at the time of admission. (NOTE: Major and/or professional courses may be repeated *only* one time).
4. Have an overall cumulative quality point average of 2.5 or better on a 4.0 scale.
5. Satisfactorily complete the Communication Skills and General Knowledge tests of the National Teacher Examinations. Scores must be sent to Pembroke State University by the Educational Testing Service.
6. Have the endorsement/recommendation of his/her advisor, Department Chairman, Foundations of Education instructor, and the Office for Student Affairs.

A student having a handicap which might adversely affect the student's ability to attain minimal competency in the teaching profession should arrange with the Director of Teacher Education for any needed accommodation.

Students should apply for admission to the Teacher Education Program during the second semester of the sophomore year or first semester of the junior year. Applications are available in the Office of Teacher Education. **NOTE: Students will not be allowed to enroll in Mainstreaming (EDN 430) or Teaching Reading (EDN 410, 413, 419) until they have been formally admitted to the Teacher Education Program.**

Each student who applies for admission to the Teacher Education Program will be given written notification by the Director of Teacher Education of the approval or disapproval of the student's application by the Teacher Education Committee. A

student is not considered admitted to the Teacher Education Program until such notification is made.

CONTINUATION IN THE PROGRAM

When the student's application for admission to the Professional Semester of the Teacher Education Program is disapproved, when the student earns a course grade lower than "C—" in one of the required courses in his or her major or the professional education sequence, or when a student's quality point average falls below a 2.5, the student is suspended from the Teacher Education Program. Students suspended from the program may not continue to progress in the program until the deficiencies are corrected. Required major and professional education courses in which a grade lower than a "C—" was earned must be repeated and a grade of "C" (2.0) or better must be earned. The course may be repeated one time only. Upon correction of the deficiencies, students suspended from the program may be reinstated with the approval of the appropriate department chair/program coordinator and the Director of Teacher Education.

ADMISSION TO THE PROFESSIONAL SEMESTER

The Professional Semester occurs in the senior year and is devoted entirely to study in professional education and to student teaching. No student accepted for enrollment in the Professional Semester is permitted to register for any course other than those specified as professional education courses as part of the Professional Semester.

The application for enrollment in the Professional Semester must be filed with the Director of Teacher Education Field Experiences not later than three months prior to enrolling in the Professional Semester.

To be eligible for consideration by the Teacher Education Committee and approved for enrollment in the Professional Semester, each candidate must:

1. Have completed all required Basic Studies courses.
2. Have satisfactorily completed all professional education requirements, excluding those in the Professional Semester, prior to admission to the Professional Semester.
3. Have not more than six semester hours of program requirements remaining. The six hours must be approved by the student's advisor and the Director of Teacher Education.
4. Have a quality point average of 2.5 or better overall AND also in the student's major field of study.
5. Present a certificate of eligibility verified by the Registrar.
6. Present a final recommendation as to character, suitability, and aptitude for teaching by the student's advisor and major department head.
7. Submit a statement of physical fitness from a licensed physician.

Accommodations to handicaps which might adversely affect the student teaching experience should be arranged with the Director of Teacher Education Field Experiences.

Each student who applies for admission to the Professional Semester will be given written notification by the Director of Teacher Education Field Experiences of the approval or disapproval of the student's application by the Teacher Education Committee. A student is not considered officially admitted to the Professional Semester until such notification is made AND all University registration procedures are completed.

ADDITIONAL POLICIES FOR TEACHER EDUCATION

Time Limit Policy

Students will have five years from the date of completing coursework toward certification to be recommended by Pembroke State University for initial certification. After five years have lapsed, a student's program of study will be reviewed and additional coursework may be required before a recommendation will be made for initial certification.

Major/professional education coursework taken more than five years ago is subject to review and may not be accepted toward initial certification.

Residency Requirements for Teacher Education Programs

Undergraduate students enrolled in one of the certification programs in teacher education at Pembroke State University will complete a minimum of 30 semester hours (2 semesters) of coursework at Pembroke State University prior to enrollment in the Professional Semester. This coursework may be in the student's major and/or professional education.

Transfer Credit for Professional Education Courses

Upon the review and approval of the appropriate program coordinator/departmental chairman and the Director of Teacher Education, up to six (6) hours transfer credit *may* be granted for professional education courses. Transfer credit will be accepted only from four-year colleges and universities with teacher education programs and which are approved by at least one of the following: (1) North Carolina State Department of Public Instruction; (2) National Council for the Accreditation of Teacher Education (NCATE); or (3) appropriate regional accrediting agencies, e.g., Southern Association of Colleges and Schools. Transfer credit for professional education courses will not be accepted from two-year colleges or institutions including junior colleges, technical colleges or institutes, or community colleges.

CERTIFICATION-ONLY

Those students who already possess a baccalaureate degree may enroll to earn teacher certification. In addition to applying to the University through the Admissions Office such students must complete a Request for an Individualized Education Program available from the Office of Teacher Education. A copy of all previous college/university course work must accompany the request. Based upon review of

the transcript by the Director of Teacher Education and the appropriate department chair and/or program coordinator, an individualized program of study, leading to a recommendation for certification by Pembroke State University, is prepared. Students returning for certification only must meet the same Teacher Education Program admission and continuation regulations as degree-seeking students. In addition, those whose previous cumulative quality point average is below a 2.5 on a 4.0 scale must maintain at least a 2.7 QPA each semester they are working toward certification and earn at least a 2.7 QPA in major and professional education courses. Additional information is available from the Office of Teacher Education.

CPC

All individuals who have been formally admitted to any of the undergraduate or graduate programs leading to certification must complete a Candidate for Professional Certification (CPC) form once each academic year that they are enrolled at the university. CPC forms are available in the Office of Teacher Education.

THE NATIONAL TEACHER EXAMINATIONS

All persons qualifying for a teaching certificate in North Carolina must pass appropriate sections of the National Teacher Examinations.

Students seeking admission to the Teacher Education Program must satisfactorily complete the Communications Skills and General Knowledge tests of the National Teacher Examinations in accordance with criteria approved and published by the Teacher Education Committee at the time the student makes initial application for admission to the program. These tests will normally be taken at the time Basic Studies requirements are completed, usually by the second semester of the sophomore year or the first semester of the junior year. An official copy of the scores must be received by the Office of Teacher Education before the student may be admitted to the Teacher Education Program.

Prospective teachers take the Professional Knowledge test and appropriate specialty area test(s) of the National Teacher Examinations in accordance with criteria approved and published by the Teacher Education Committee prior to completion of the program. These tests will normally be taken during the semester in which student teaching occurs. An official copy of satisfactory scores must be received by the Office of Teacher Education before a recommendation for certification can be forwarded to the State Department of Public Instruction.

Students possessing teaching certification and seeking additional areas of certification must satisfactorily complete the appropriate specialty area exam(s) before a recommendation for certification can be forwarded to the State Department of Public Instruction.

Students should have their scores sent directly to Pembroke State University by the Educational Testing Service. Sealed copies are not accepted.

Applications and information on the tests are available from the Director of Teacher Education.

GRADUATE TEACHER EDUCATION PROGRAM

Curricula for the Graduate Teacher Education program are designed to provide opportunities for continuing professional development and master's level certification for regional school educators.

Each graduate education program is undergirded by a strong, diversified undergraduate program. The graduate program complements and enhances the undergraduate program by extending the professional development opportunities of educators. Each program is designed to assist the student with obtaining greater professional competence in the chosen area of specialization. For descriptions of graduate curricula and degrees, see **Graduate Programs** section.

BASIC STUDIES PROGRAM

Graduation from Pembroke State University is based on successful completion of Basic Studies, which is required for all baccalaureate degrees, and upon successful completion of a specialized program for a major.

Basic Studies at Pembroke State University seeks to graduate students with broad vision who are sensitive to values and the complexity of social problems and who are becoming effective citizens with an international perspective and a deep appreciation for the great principles and achievements of civilizations. The program attempts to impart to the student an understanding of the fundamental principles and contributions of a wide variety of disciplines. At the same time, it seeks to help students to analyze and weigh evidence, to exercise quantitative and scientific skills, to make informed decisions, to write and speak clearly, and to be creative.

BASIC STUDIES REQUIREMENTS

(50 Hours Total)

A. Basic Skills (6 hours)

CMA	105	Composition I
CMA	106	Composition II

A full-time student must enroll in CMA 105 - Composition I-immediately and must earn a "C" (2.0) grade or better before enrolling in CMA 106-Composition II. A student must remain continuously enrolled in CMA 105 and 106 until he or she has earned a "C" (2.0) grade or better in CMA 106.

All entering freshmen and all freshmen transfers must complete the CMA 105 and 106 sequence successfully before they earn a total of 60 credit hours. All students who transfer with 30 credits or more must complete CMA 106 during their first 30 semester hours at Pembroke State University. Students who have not completed their composition courses at the end of the allotted time will no longer be permitted to register for 300 or 400 level courses. If they attempt to do so, the registrar's office will cancel their registration and require them to register only for courses below the 300 level until they receive a "C" (2.0) in CMA 106. (The Admissions and Retention Subcommittee of the Faculty Senate, or in emergency situations the Dean of Records and Special Programs, will consider exceptional cases.)

For some majors, certain courses may count toward both Basic Studies and major requirements. Ask your advisor for assistance in selecting appropriate courses.

B. Humanities (18 hours)

(1) Fine Arts (3 hours)

Choice of *one* course from the following:

ART	205	History and Appreciation of Art
CMA	250	Introduction to Theatre
MUS	230	Introduction to Music Appreciation
MUS	295	Music History and Literature I

(2) Literature (3 hours)

Choice of *one* course from the following:

CMA 203 Introduction to Literature

CMA 205 World Literature I

CMA 206 World Literature II

(3) History (3 hours)

Choice of *one* course from the following:

HST 101 American Civilization to 1865

HST 102 American Civilization since 1865

HST 126 Early European Civilization

HST 127 Modern European Civilization

HST(AIS)210 History of the American Indian

(4) Philosophy and Religion (3 hours)

Choice of *one* course from the following:

PHI 100 Introduction to Philosophy

PHI 101 Introduction to Logic

PHI 204 Introduction to Ethics

REL 130 Introduction to Religion

(5) Humanities Division Electives (6 hours)

Choice of *two* courses from the following areas. Both courses may not be selected from the same area except that a student may elect 6 hours of foreign language. Music majors may elect two Fine Arts classes. Chancellor's Scholars may elect six hours from Area 5.

Since all Teacher Education programs require a total of six credit hours of 200-level literature and 6 hours of 100-200 level history, Teacher Education majors must take their humanities electives in literature and history (three credit hours each). Music Education majors may substitute MUS 296 and MUS 395 for their literature and history electives.

NOTE: Among the total humanities courses selected, no more than two may be chosen from the following: AIS 201, AIS(HST)210, AIS(REL)213, AIS(CMA)220.

Area 1. Fine Arts

ART 101 Elements of Design

ART 205 History and Appreciation of Art

CMA 250 Introduction to the Theatre

MUS 113 Fundamentals of Music Theory

MUS 209 Basic Musicianship

MUS 230 Introduction to Music Appreciation

MUS 296 Music History and Literature II

Area 2. Communicative Arts

CMA 100 Interpersonal Communication

CMA 101 Fundamentals of Speech

CMA 204 Mythology of All Peoples

CMA 205 World Literature I

CMA 206 World Literature II

CMA	207	Studies in Literature
CMA(AIS)	220	American Indian Literature
CMA	221	Major American Authors
CMA	246	Major British Authors
FRH	131, 132	Elementary French
FRH	231, 232	Intermediate French
GER	131, 132	Elementary German
GER	231, 232	Intermediate German
SPN	131, 132	Elementary Spanish
SPN	231, 232	Intermediate Spanish
Area 3. History		
HST	101	American Civilization to 1865
HST	102	American Civilization since 1865
HST	126	Early European Civilization
HST	127	Modern European Civilization
HST(AIS)	210	History of the American Indian
HST	250	Modernization in Global Perspective
Area 4. Philosophy and Religion		
AIS	201	American Indian Culture
PHI	100	Introduction to Philosophy
PHI	101	Introduction to Logic
PHI(REL)	102	Perspectives on Humanity
PHI	202	Philosophy of Religion
PHI	204	Introduction to Ethics
PHI	205	Social and Political Philosophy
PHI	211	American Philosophy
REL	105	Survey of Old Testament
REL	106	Survey of New Testament
REL	130	Introduction to Religion
REL	209	Religion in America
REL(AIS)	213	American Indian Traditions
REL	214	Introduction to Religious Ethics
REL	216	Religions of the Far East
REL	218	Religions of the Near East
Area 5. (Chancellor's Scholars only)		
CSP	200	Great Cultural Epochs I —credit for any course in Section (5) of Humanities
CSP	201	Great Cultural Epochs II —credit for any course in Section (5) of Humanities

C. Social Science (12 hours)

Each student must earn three hours in four out of five of the following disciplines, chosen from the courses listed below:

(1) Economics

ECN	201	Principles of Economics I
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(2) Geography

GGY	101	Introduction to Geography
GGY	102	World Regional Geography
GGY	200	Cultural Geography
GGY(ECN)	206	Economic Geography

(3) Political Science

PLS	100	Introduction to Political Science
PLS	101	Introduction to American National Government

(4) Psychology

PSY	101	Introductory Psychology
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(5) Sociology

SOC	101	Introduction to Modern Sociology
SOC	105	Introduction to Cultural Anthropology
SOC	201	Sociological Concepts

Chancellor's Scholars may substitute these courses for courses in any two disciplines:

CSP	100	Current World Problems	—will receive credit for any course in Social Science
CSP	275	Frontiers in Human Behavior	—will receive credit for any course in Social Science

D. Natural Sciences and Mathematics (12 hours)

(1) Biology (3 hours)

BIO	100	Principles of Biology
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(2) Physical Science (3 hours)

Choice of *one* course from the following:

CHM	100	General Chemistry
PHS	110	Physical Science I
PHS	111	Physical Science II
PHY	100	Elementary Physics I
PHY	150	College Physics I
PHY	200	University Physics I

Chancellor's Scholars only:

CSP	151	Contemporary Issues in Science and Technology	—will receive credit for any course in Section (2) of Natural Science and Mathematics
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(3) Mathematics (3 hours)

Choice of *one* course from the following:

MAT	105	Introduction to College Mathematics
MAT	106	Foundational Concepts of Mathematics
MAT	107	College Algebra
MAT	108	Plane Trigonometry
MAT	109	College Algebra and Trigonometry
MAT	221	Calculus I

(4) Divisional Elective (3 hours)

Choice of *one* additional course to complete the 12 hour requirement.

BIO	100L	Laboratory Investigations and Experiences in General Biology (1 hour)
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BIO	101	General Botany
BIO	102	General Zoology
BIO	103	Basic Human Biology
BIO	201	Economic Botany
BIO	207	History of Biology
BIO	210	Conservation and Environment
CHM	100, 101	General Chemistry
CSC	200	Intro. to Computer Programming—FORTRAN
CSC	201	Intro. to Computer Programming—COBOL
CSC	202	Microcomputer Programming
GLY	100	Physical Geology
GLY	115	Earth Science
MAT	105	Introduction to College Mathematics
MAT	106	Foundational Concepts in Mathematics
MAT	107	College Algebra
MAT	108	Plane Trigonometry
MAT	109	College Algebra and Trigonometry
MAT	118	Finite Math
MAT	210	Introduction to Statistics
MAT	221, 222	Calculus I, II
PHS	110, 111	Physical Science I, II
PHS	116	Exploring Man's Energy Choices
PHY	156	Astronomy
PHY	100, 101	Elementary Physics I, II
PHY	115	Electronics
PHY	150, 151	College Physics I, II
PHY	200, 201	University Physics I, II

Chancellor's Scholars only:

CSP	150	Modeling and Analysis of Natural Systems —will receive credit for any course in Section (4) of Natural Science and Mathematics
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E. Physical Education (2 hours)

Each student is required to complete two of the following courses:

PED	101	Wellness and Fitness
PED	130	Fitness Walking
PED	131	Archery
PED	132	Badminton
PED	133	Golf
PED	134	Beginning Swimming
PED	135	Tennis
PED	137	Bowling
PED	138	Rhythms & Dance
PED	139	Racquetball
PED	140	Intermediate Swimming

PED	141	Physical Conditioning
PED	145	Volleyball
PED	146	Weight Training
PED	172	Lifeguard Training
PED	177	Advanced Physical Conditioning (Aimed at Varsity Athletes)
PED	179	Aerobic Dance
PED	180	The Art of Self Defense

REQUIREMENTS FOR A DOUBLE MAJOR

A student may elect to earn majors in two separate disciplines on the condition that the student meets all requirements for each major. The student who completes requirements for more than one major will receive only one degree, but at the time of initial graduation, the record will indicate both majors.

REQUIREMENTS FOR A SECOND BACCALAUREATE DEGREE

A student with a bachelor's degree may receive a second baccalaureate degree if it is a different degree and a different major by fulfilling the following requirements:

- (1) The student must meet all the requirements for the second degree and major.
- (2) The student must complete a minimum of 30 hours in residence beyond the requirement for the first degree.

REQUIREMENTS FOR A MINOR

A recognized minor should ordinarily consist of 18 to 21 semester hours of courses. With the approval of the department granting the minor, up to six hours of the courses counted toward a minor may be used to satisfy Basic Studies, major requirements, or requirements of an additional minor. The award of a minor will require formal approval of the department concerned. Successful completion of a minor will be noted on the student's official transcript. Student participation in minor programs will be optional.

The following Departments offer minors (A list of minors appears on p. 6):

American Indian-Studies	History
Art	Mathematics and Computer Science
Business Admin. and Economics	Music
Communicative Arts	Philosophy and Religion
Geology and Geography	Political Science
Health, Physical Education and Recreation	Psychology
	Sociology, Social Work, and Criminal Justice

In addition, three interdepartmental minors are available (see **Special Programs** section):

Applied Gerontology	Personnel and Organizational
World Studies	Leadership

ACADEMIC CONCENTRATIONS

In addition to majors and minors, a number of departments offer academic concentrations. These concentrations require from 24 to 27 semester hours, depending on departmental requirements. Teacher Education majors subject to The University of North Carolina requirement for completion of a concentration in a basic academic discipline may select one of these academic concentrations to fulfill that requirement or may choose to earn a second major of 30 hours in Philosophy or Religion. Any student may elect to complete an academic concentration in addition to a major. Students considering academic concentrations should consult the appropriate academic department section.

Academic concentrations are available in the following subject areas:

American Indian Studies	History
Art	Mathematics
Biology	Music
Communicative Arts	Physics
Geography	Political Science
Geology	Psychology
	Sociology

CHANCELLOR'S SCHOLARS PROGRAM

The Chancellor's Scholars Program is designed to recognize outstanding students and to promote the scholarly growth of the students selected for the program by providing interdisciplinary educational opportunities not necessarily available in the general curriculum. These distinctive opportunities include: small interdisciplinary seminars; an intellectually stimulating social environment; greater curricular flexibility; more personal contact and scholarly discussion with students and faculty from the various disciplines; closer interaction with individual faculty members in the program; and the opportunity to write a senior thesis or to develop a senior project with faculty supervision.

Chancellor's Scholars are selected on the basis of exceptionally high grades, Scholastic Aptitude Test (SAT) scores or American College Testing (ACT) scores, and/or extra-curricular achievements. Tuition scholarships are awarded to as many of the Chancellor's Scholars as possible. Chancellor's Scholars are appointed by the Chancellor upon the recommendation of the Chancellor's Scholars Council. After receiving the recommendation from the Council, the Chancellor sends a personal letter to the student inviting him/her to participate in the program. As many Chancellors' Scholars as possible receive scholarships covering full tuition and fees at the in-state rate.

To remain in the Chancellor's Scholars Program, students are required to maintain a minimum overall quality-point average of 3.0, maintain a minimum CSP quality-point average of 3.0, and receive appropriate recommendations by the Chancellor's Scholars Council.

The Chancellor's Scholars Program allows the student to obtain a broad and solid

general education, select an existing major at the University that best meets career goals, and participate in an enriching series of interdisciplinary seminars.

For Chancellor's Scholars seminars, please see **Special Programs** section.

For further information, write Director, Chancellor's Scholars Program, Pembroke State University, Pembroke, NC 28372.

HEALTH PROFESSIONS—PREPROFESSIONAL CURRICULA

Although Pembroke State University does not offer degrees in the health professions, the departments of biology and physical science (chemistry) provide curricula which meet the requirements for admission into most schools of medicine, dentistry, veterinary science and medical technology. In addition, students wishing to pursue a degree in a variety of other health related professions such as nursing, pharmacy, optometry, physical therapy, etc. can obtain some of the required college preparation (generally two years) at Pembroke State University prior to transfer to the appropriate professional school. In each case, admission to the professional school is competitive and completion of the prescribed curriculum at Pembroke State University does not guarantee such admission. Because entrance requirements vary with the profession and with individual schools, it is the responsibility of the student to be familiar with the requirements of the specific school to which he or she plans to apply. Advice or assistance can be obtained from the Health Careers Counselor, the Chairman of Committee on Preprofessional Curricula, or from any member of the biology or chemistry faculty.

PREPROFESSIONAL CURRICULA IN MEDICINE, DENTISTRY AND VETERINARY SCIENCE

Although a B.S. degree is technically not a prerequisite for these programs, the large majority of students who apply and are accepted do hold an undergraduate degree. It is therefore recommended that students interested in these areas pursue a B.S. degree. The departments of biology and physical science (chemistry) offer B.S. programs with biomedical emphasis that enable a student to meet requirements for most professional schools. These programs are detailed in the program descriptions of the Departments of Biology and Physical Science.

ACCELERATED PROGRAM IN MEDICAL TECHNOLOGY

Pembroke State University offers a program to its biology and chemistry majors in affiliation with hospitals approved by the Council on Medical Education of the American Medical Association which gives, by the board of registry of Medical Technologists, a medical technology certificate. In this program the students complete six semesters of on-campus study and one year of study and training in an affiliated hospital. After satisfactory completion of the fourth year (hospital training), Pembroke State University will award the B.S. degree in biology or chemistry to the students. Undergraduate students enrolled in the fourth year of the accelerated program in medical technology must pay tuition to both Pembroke State University (not including fees) and to the affiliated hospital. Details of the medical technology

programs appear in the program descriptions of the Departments of Biology and Physical Science.

Currently, Pembroke State University has formal affiliations with McLeod Memorial Hospital in Florence, S.C., and with Moses Cone Hospital in Greensboro, N.C. Dr. Vera C. Hyman, M.D., and Ms. Vicki Anderson, M.T., the program director and the education director at McLeod Memorial Hospital, are regarded as adjunct professor and lecturer respectively at Pembroke State University. Similar appointments are made for Robert M. Gay, M.D. and Jean Smith, M.T., the medical director and program director respectively at Moses Cone Hospital. Although the affiliation agreement does provide PSU students some preference in the admissions process it should be noted that admission to the hospital program is competitive and that the admissions process is a function of the hospital program.

It should be noted that this is an accelerated program which allows the student to complete in four years a program that often requires five years. Students may elect the alternate route in which a B.S. degree in biology or chemistry (biomedical emphasis) is obtained before application to a hospital program. Students electing this route are eligible to apply to any school of medical technology and are not limited to programs affiliated with Pembroke State University.

ACCELERATED PROGRAM IN PODIATRIC MEDICINE

In affiliation with the Pennsylvania College of Podiatric Medicine, the Department of Biology is able to offer to selected majors an Accelerated Podiatric Medical Education Curriculum (APMEC). The Doctor of Podiatric Medicine degree, awarded by the Pennsylvania College of Podiatric Medicine, is a seven-year program, involving three years of pre-professional and four years of podiatric medical education. Students selected for this program complete three years of a prescribed biology program at Pembroke State University and are awarded the B.S. degree in Biology upon successful completion of the first year of the podiatry curriculum at the Pennsylvania College of Podiatric Medicine.

Admission to the APMEC Program is limited to students attending those institutions formally affiliated with the Pennsylvania College of Podiatric Medicine. Students admitted into the program are generally from rural or underserved areas and are interested in returning to those areas of practice. Pembroke State University is one of eighteen currently affiliated institutions (only three of these are outside of the state of Pennsylvania). The Pennsylvania College of Podiatric Medicine has agreed to reserve up to three seats annually for students of Pembroke State University who have satisfactorily completed a prescribed three-year pre-professional curriculum. Completion of the preparatory program does not guarantee admission to the Pennsylvania College of Podiatric Medicine. Admission involves a competitive application process. Students accepted for the study of podiatric medicine must possess exceptional qualifications.

Additional information can be obtained from the Chairman of the Biology Department. Details of the curriculum in podiatric medicine are found in the program descriptions of the Department of Biology.

M.A.R.C. (MINORITY ACCESS TO RESEARCH CAREERS) PROGRAM

The M.A.R.C. Program at Pembroke State University, a training program funded by the National Institute of Health, is designed to train qualified minority students for a career in biomedical research. In addition to a variety of unique educational experiences, the program will provide selected students a monthly stipend and will pay tuition and fees during their last 24 months at Pembroke State University. Administration of the program is the responsibility of the Program Director.

The M.A.R.C. Program is an honors program and trainee selection is on a competitive basis. Students will be selected at the end of the sophomore year by the M.A.R.C. Steering Committee. Requirements for selections are:

1. Completion of the first two years of the M.A.R.C. curriculum in either biology or chemistry. These requirements are more demanding than those of the traditional biology or chemistry. See Biology Department section for biology requirements and Physical Science Department section for chemistry requirements.
2. An overall QPA of at least 3.0.
3. An interest in a career in biomedical research and the desire to pursue the Ph.D. degree in a biomedical science or related field.

Students selected as M.A.R.C. trainees will spend the summer between the sophomore and junior years in an intensive curriculum enhancement program at Pembroke State University. Skills will be developed or enhanced in molecular biology, organic chemistry, statistical analysis, and computer methodology. This program, taught by Pembroke State University faculty, will better prepare the students for the demanding curriculum of the junior and senior years.

A vital component of the M.A.R.C. Program is a summer's research experience at a major research institution between the junior and senior years. Arrangements have been made with a number of research scientists in both academic and industrial settings to provide M.A.R.C. trainees from Pembroke State University with this research experience. For additional information about the M.A.R.C. training program in biology or chemistry, contact the Chairman of the Department of Biology.

AIR FORCE ROTC PROGRAM

General military courses are available for the freshman and sophomore years, and professional officer courses for the junior and senior years.

Advanced credit for a portion of the freshman/sophomore curriculum may be granted for previous participation in high school junior ROTC, Army or Navy Senior ROTC, Civil Air Patrol, military school, or prior active military service.

Qualifications

The general qualifications for general military course entry are as follows: (a) United States citizenship; (b) meeting college entrance medical standards; (c) good moral character, and (d) attending a college or university offering the AFROTC Four-Year Program or a college or university which has a cross-enrollment agreement

with an institution hosting the AFROTC Program. Pembroke State University has a cross-enrollment agreement.

Mission

The AFROTC Program mission is “to recruit, educate, and commission officer candidates through a college campus program in response to Air Force requirements.” To support this mission, AFROTC has three specific objectives: (1) to recruit, select, and retain officer candidates until they are commissioned as second lieutenants in the US Air Force; (2) to provide a college-level education that qualifies cadets for commissioning in the US Air Force; and (3) to strengthen each cadet’s sense of personal integrity, honor, and individual responsibility; enhance knowledge of how the US Air Force serves the national interest; increase understanding of officer professionalism in the US Air Force; and develop potential as a leader and manager.

For Aerospace Studies courses, please see the **Special Programs** Section of this catalog.

For further information, write AFROTC Program, Pembroke State University, Pembroke, NC 28372.

ARMY ROTC PROGRAM

Enrollment in the Basic Course is open to all full-time students, and it carries with it no obligation for military service. Completion of the Basic Course is a prerequisite for application into the Advanced Course.

Prior service in the military, high school ROTC, or membership in a National Guard or Reserve unit may result in direct Advanced Course placement. Entrance into the Advanced Course is selective and is based upon demonstrated performance and leadership potential. Students who satisfactorily complete the Advanced Course and graduate from the University are commissioned as Second Lieutenants into the US Army.

Qualifications

The general qualifications for entry into the ROTC Program are as follows: (a) United States citizenship; (b) meeting college entrance medical standards; (c) good moral character; and (d) being enrolled as a full-time student at Pembroke State University.

Mission

The mission of the Army ROTC Program at Pembroke State University is to attract, motivate, and prepare selected students to serve as commissioned officers in the active or reserve components of the US Army; to provide a practical understanding of the concepts and principles of military science; to develop a strong sense of duty, honor, and country; to promote teamwork and individual fitness; and to develop an understanding of and an appreciation for international relations and national security. Attainment of these objectives prepares students for commissioning and

establishes a solid foundation for their professional development and effective performance in the uniformed service or in civilian enterprise.

The Army ROTC Program is of modular construction and is composed of a Basic and an Advanced Course. For Army ROTC courses, please see Military Science in the **Special Programs** section.

For further information, write Department of Military Science, Pembroke State University, Pembroke, NC 28372.

EXPERIENTIAL LEARNING PROGRAMS

Practical work experience is very important in today's world. Students at Pembroke State University may elect to get some practical work experience which is related to their program major (or minor) through several practical work experiences.

Experiential Learning Program

Experiential Learning is a working-and-learning arrangement. The student negotiates a proposal in some area of interest to the student. Negotiation involves the student, the University, and an organization (business, agency, etc.) where the student plans to work. Experiential Learning is available through academic departments and requires approval of the chairman.

The following regulations govern the offerings of Experiential Learning:

1. The Experiential Learning Program consists largely of Experiential Learning I and Experiential Learning II. A student must take the courses in numerical order. They cannot be taken concurrently.
2. The amount of credit that can be earned in Experiential Learning I and II varies from one to three semester hours in each course, and is jointly determined by the student and the student's major advisor on the basis of what the student contracts to do.
3. To be eligible for enrollment in Experiential Learning I or II, a student must:
 - a. have declared for a major program in a department which provides its students with practical work experience through Experiential Learning I and II;
 - b. be classified as a junior or senior;
 - c. have an overall cumulative quality point average of at least 2.0;
 - d. have the written recommendation and approval of the major department chairman and the major advisor.
4. Each eligible student who registers for Experiential Learning I or II is required to sign and carry out a written work-learning contract jointly developed by the student, the student's advisor, and the organization providing the practical work experience which states:
 - a. what the student is to do, what the major advisor is to do, and what the organization is to do;
 - b. the number of semester hours the students will earn in completing the contract;

- c. that credit will be earned only if all of the contracted work is completed within a contract period of one-semester or term of summer session;
5. Eligible students are allowed to use not more than a total of six semester hours credit in Experiential Learning I and II in meeting the 128 semester hours minimum requirement for the degree.

Cooperative Education Program

Cooperative Education is an arrangement whereby Pembroke State University cooperates with an outside business or agency to help a student directly explore a career-related field as an integral part of the educational program. The program allows participating students to alternate full-time work and on-campus study as complementary educational experiences while pursuing an academic degree program. To be eligible, a student must have completed a minimum of 30 semester hours and normally must have earned a cumulative QPA of 2.0 or above. Participants receive pay and academic credit for the work experience which is coordinated and supervised by the Career Planning and Placement Center.

Internship Program

The Internship Program provides opportunities for students to earn academic credit for approved work or research programs in cooperating business-government, or education organizations. The internships, which are of one-term duration, are open to qualified junior or senior students with the approval of the department chairman. Further information is available from the Career Planning and Placement Center.

THE GRADUATE PROGRAMS

Pembroke State University offers a program of graduate studies leading to a Master of Science Degree in Administrative Studies (M.S.A.S.), a Master of Arts Degree in Education (M.A.Ed.), and graduate level (G) certification for teachers and school administrators in eight areas of specialization. For information about these programs and their admissions requirements, see the **Graduate Programs** section of this catalog.

The Master of Science in Administrative Studies is an interdisciplinary program established in response to the career and professional development needs of administrators and managers in the region. This master's level program provides advanced study opportunities to qualified individuals from the private, public, and nonprofit sectors. For information about this program, contact the Director, Dr. Daniel G. Barbee (Business Administration Building 118, 919-521-4214, Ext. 531).

The Master of Arts in Education Program, described in the catalog section on **Graduate Programs**, offers graduate curricula and degrees in the following areas: Elementary Education (K-6); Middle Grades Education (6-9); Elementary Education (Reading Education); Educational Administration and Supervision; English Education; and Mathematics Education.

Candidates for the Master of Arts in Education degree will be required to complete successfully a minimum of 30 semester hours in the prescribed program of graduate

study. Where it is felt that more work is required to prepare a candidate for the degree and/or graduate certification, the number of semester hours required will be increased.

The Master of Arts in Education programs in Elementary Education and in Educational Administration and Supervision provide curricula and leadership training for continuing professional and career development. Specialties are offered leading to certification in early childhood education, intermediate education, middle grades education, reading education, educational administration and supervision (curriculum and instruction).

The curriculum core in Elementary Education (K-6) includes 15 semester hours of education in the areas of curriculum, research, language development, reading, diagnosis/evaluation of pupils and programs and internships. Appropriate electives (18 hours or more) are also required.

The curriculum core in the reading education area of Elementary Education includes 15 semester hours in the areas of curriculum, research, language development, general reading diagnosis, and educational psychology. Fifteen (or more) semester hours of appropriate reading education courses and/or electives are required. Programs of study are available for those teachers with prior undergraduate preparation and/or certification in reading education; for those teachers without any prior preparation in reading education; and for those teachers who need to update their preparation in reading.

The curriculum core in Middle Grades Education (6-9) includes 12 semester hours of education in the areas of curriculum, adolescent psychology, research, and internship. Students also take 24 hours of guided electives in two areas of concentration.

The curriculum core in Educational Administration and Supervision consists of 18 semester hours of education in the areas of educational administration and supervision, curriculum, research, and an internship complemented by 12 (or more) semester hours of appropriate electives.

The curriculum in English Education includes a core of 15 semester hours in the areas of literacy and literature education, the teaching of writing, the teaching of literature, educational psychology, research, and internship. Students also take 18 hours of guided electives in literacy, literature, and related subjects.

The curriculum in Mathematics Education includes a flexible core of 18 hours in two areas: mathematics education (curriculum, theory, history, and problem solving) and professional education (educational psychology, history and philosophy of education, research and internship). Students also take 18 hours of guided electives in five areas of mathematics.





**STUDENT AFFAIRS
and
STUDENT SERVICES**

STUDENT AFFAIRS and STUDENT SERVICES

Supervision of the James B. Chavis University Center is a primary responsibility of the Director of Student Activities. The University Center serves as the hub of all campus activities. Located in the center of campus, the University Center houses: three conference rooms, Student Activities offices, SGA offices, the Career Planning and Placement Center, the Counseling and Testing Center, two dark rooms for the school newspaper/yearbook staff, cafeteria, Bert's Restaurant, gameroom, student lounges, and the Campus Post Office.

STUDENT GOVERNMENT

Although discipline is the legal responsibility of the administration, the principle of Student Government is fully supported by the administration and faculty. All students attending Pembroke State University automatically become members of the Student Government Association. Student Government functions through its elected representatives and its sponsor, the Vice Chancellor for Student Affairs. Officers of the Student Government are elected by the student body each spring according to the constitution and bylaws of the organization.

STUDENT SENATE

The Legislative Branch of the Student Government Association, the Student Senate, functions as the policy-making body of the SGA. Also, the Senate recommends policies and regulations necessary and proper to promote the general welfare of the student body. The Senate is empowered to schedule the time and place of its meetings, provided that there are regular meetings at least once every two weeks. Composition of the Senate is one representative for every 150 students, based upon the previous September enrollment. The President of the Senate is the Vice-President of the Student Government Association.

ATHLETICS

Pembroke State University excels in athletics in both men's and women's competition. Recognition is strived for through competition in the Carolinas Intercollegiate Athletic Conference, the National Association of Intercollegiate Athletics (District 26), and the National Collegiate Athletic Association (Division II).

Eight men's sports and five women's sports give Pembroke State University constant recognition at the local, state, and national levels. Men's varsity sports are sponsored in baseball, basketball, cross country, golf, soccer, tennis, track, and wrestling while women's sports include basketball, softball, tennis, volleyball, and cross country.

Conference championships have been won in many of Pembroke State University's programs and advancing to national competition has been a feat of which Pembroke State is very proud. Cross country, wrestling, and track teams often attend nationals

while basketball and baseball teams have participated in national competition. Pembroke State University won the 1978 national championship in cross country. In 1990, PSU's basketball team was ranked in 10th place in the NAIA year-end poll.

Pembroke State has won over 50 district championship crowns through the years. Over 40 student-athletes have been honored as First-Team All-Americans. These All Americans are recognized on the "Pembroke State University All-American Board" proudly displayed in the English E. Jones Health and Physical Education Center. Also, former athletic greats are inducted annually into the "Pembroke State University Athletic Hall of Fame."

Athletic grants-in-aid are offered in all of Pembroke State University's intercollegiate sports programs for both men and women upon recommendation of the head coach and approval of the Director of Athletics.

INTRAMURALS

The Intramurals Program believes that leisure physical activity and enjoyment are vital to a person's total well-being. Based upon this belief, the intramural program provides a broad and diversified program of recreational sport activities for the University's students, faculty, and staff.

The Pembroke State University student has opportunities for participation in over a dozen intramural activities, and if that is not sufficient recreational opportunity, there are also recreational swimming, weight lifting, and fitness activities.

CULTURAL PROGRAMS

There are many opportunities for cultural enrichment at Pembroke State University. The University Theatre produces three main-stage plays each year plus numerous studio theater productions in the Givens Performing Arts Center. The Music Department contributes programs of the Band, the Concert Choir, and the ever popular Jazz Ensemble the Singers and Swingers. The SEASON provides 10-14 professional touring groups each year. Also, student and faculty art shows are displayed in Locklear Hall, the James B. Chavis University Center, and the Givens Performing Arts Center.

CO-CURRICULAR ACTIVITIES

The Pembroke State University community believes that students should become actively involved in the co-curricular activities of their University. This involvement should be an important part of the students' campus life. The administration at Pembroke State is dedicated to providing the student body with a variety of activities that will complement the academic program.

Band is open to all students regardless of major. The band appears in festivals in addition to a regularly scheduled series of concerts. Credit is available through the Music department.

Cheerleaders are selected through competition. In addition to cheering at athletic events, the Cheerleaders are campus leaders in promoting school spirit.

Concert Choir is open to all students regardless of major. The Concert Choir is a large mixed vocal organization that specializes in performing works of a serious nature as well as light classics. The Concert Choir appears before campus groups and local groups, and represents the University on tours. Credit is available through the Music department.

The Indianhead is the University yearbook. All students are eligible to work on the staff. Credit is available through the Communicative Arts department.

Jazz Choir (The Singers) is open to all students regardless of major. The Jazz Choir is a mixed-voice ensemble which specializes in performing popular songs before campus groups and local civic organizations, and it goes on tours. Credit is available through the Music department.

Jazz Ensemble (The Swingers) is open to all students regardless of major. The Jazz Ensemble is an instrumental ensemble which specializes in performing popular music and modern jazz arrangements before campus groups and local civic organizations, and it goes on tours. Credit is available through the Music department.

Pep Band is open to all students regardless of major. It specializes in performing at University athletic contests and other special occasions. Credit is available through the Music department.

The Pine Needle is the student newspaper. All students are eligible to work on the staff. Credit is available through the Communicative Arts department.

The PSU Gospel Choir is open to all students with an interest in singing and promoting spiritual growth and inspiration.

The University Theatre is a dramatics organization which offers members the opportunity to appear in plays and to engage in play productions. All students are eligible.

WPSU-Television

Pembroke State University operates WPSU-TV, a cablecasting facility that serves Pembroke, Lumberton, Charlotte, Greensboro, Rockingham, Hamlet, Fayetteville, Hope Mills, and Spring Lake. WPSU-TV is operated completely by University students and also supports the academic program in Broadcasting by providing a working laboratory for practical experience. Credit is available through the Communicative Arts department.

CAMPUS CLUBS

Angel Flight/Silverwings serves as a service group to the campus and the community. It also serves as a link between the civilian and military sectors.

Applied Sociology Club consists of students interested in practical applications of the science of sociology such as community development and town planning, occupational guidance and vocational rehabilitation, etc. It is open to all students.

Arnold Air Society is a society within the Air Force ROTC for those who want to excel within the program. It promotes interaction between the cadets and other non-military groups as well as promoting a better understanding of the Air Force by the community.

Biology Club membership is open to all students who have a genuine interest in the natural sciences. Members become more familiar with all the phases of the biological world and learn more about scientific processes. They also gain experience in scientific literature, lab and field research, and preparation for graduate study.

Black Student Organization is open to all students. Its primary purposes are to foster the idea of Black identity, promote the true spirit of Black unity, and insure effective participation in decision-making processes that affect the organization's members.

Campus Association of Social Workers is open to any student interested in social work.

Chemistry Club is an organization to explore the broad field of chemistry and the physical sciences in order to enhance the educational interests of its club members. Any PSU student or faculty member interested in chemistry and/or the physical sciences may participate.

Circle K Club is sponsored by the Pembroke Kiwanis Club and is open to all students. Its purposes are: to emphasize the advantages of the democratic way of life; to provide the opportunity of leadership training in service; to serve on the campus in the community; to encourage participation in group activities; to promote good fellowship and high scholarship; to provide a practical means to form enduring friendships; to render altruistic service; and to build better communities.

Communicative Arts Club is an organization to promote the communicative arts-broadcasting, theatre arts, literature, public relations, foreign language, and journalism - in the University, community and in the nation.

Euclidian Mathematics Society is open to all students interested in mathematics.

Geography Club is an organization to promote awareness of all areas encompassed within the field of geography.

Health Careers Club is open to all students. Its primary purpose is to promote awareness and interest in all areas of the health professions and to promote campus and community service projects.

History Club is an organization which promotes an awareness of the history of the University, community, and country. Membership is open to all students who have a true interest in history and wish to support the club.

International Affairs Organization is an organization which promotes the study of international political relations, fosters intercultural understanding, and encourages participation in various academic activities.

International Student Club provides for recreation and general assistance to foreign students in adjusting to American college life.

Native American Student Organization is open to all students. Its primary purpose is to create an awareness of and concern for the Native American.

Pembroke Raiders is an organization to promote the Army program and stimulate the interest of potential ROTC students. Open to students who are interested in working with the ROTC program and cadets. You do not have to be enrolled in ROTC but must have an average of 2.0 or above.

Physical Education and Recreation Club (PERC) is open to all physical education and recreation majors and minors who are interested in the purposes and ideas of health, physical education, and recreation education.

Political Science Club is open to all students majoring in any curriculum offered by the Political Science Department.

Prancers is a dance team open to all students. They offer opportunities to explore different types of dance, including Jazz and Modern, and basic elements such as tap and ballet. The team represents the university by performing dance routines for campus events or by special invitation off campus with approval of the advisor.

Psychology Club is an organization open to all majors and minors in the field of Psychology. Its primary purpose is to promote awareness and interest in all areas of the Psychology professions.

Que Essence is an organization formed to promote womanhood, perseverance, scholarship and sisterhood. Must have a 2.0 average, be highly motivated, and project a positive attitude.

Student Rights Organization is an organization formed to promote and protect the rights of PSU students.

Students for Environmental Action is an organization dedicated to informing PSU students and the community of environmental concerns; making an effort to help the environment; and strengthening any existing positive environmental attitudes.

University Players is a dramatics organization which offers members the opportunity to appear in plays and to engage in play productions.

HONORARY ORGANIZATIONS

Alpha Chi is a National Honor Society. Membership is comprised of the top ten percent of the junior class and the top five percent of the senior class.

Alpha Epsilon Rho is an organization to recognize outstanding scholarship and broadcasting skills of telecommunications students and to attract attention to the program.

Alpha Phi Sigma is a national criminal justice honor society formed to promote academic excellence among students majoring in the field of criminal justice.

Alpha Psi Omega the national dramatics fraternity open to those who excel in dramatics.

Marshals of Pembroke State University are elected by joint committee of faculty and students. The Marshals officiate at Graduation and many University functions. Any student with a minimum 3.0 average can apply.

PSU Ambassadors is an organization dedicated to enhancing and preserving the fellowship between the University, Students, Donors and Alumni. The Ambassadors also assist the Admissions Office in its efforts to promote educational opportunities at PSU.

Phi Alpha Theta is a history honor society to promote a historical interest in the University, community, and country. To be eligible, a student must be a history major with at least 3.1 average in history courses, have a minimum of 12 hours in history, and rank in upper 35% of class.

Psi Chi is a national honor organization to advance the science of psychology and to encourage, stimulate, and maintain the scholarship of individual members in all fields, particularly psychology.

Sigma Tau Delta is a national English organization designed to offer majors, minors, and faculty members in communicative arts an opportunity to share ideas, to bring speakers to campus, and to enhance student-professor relationships. Membership is open to students with a 3.0 average and a 3.2 average in Communicative Art courses.

Sociology Honor Society is open to those students with an overall 3.0 average who are interested in the study of society.

PROFESSIONAL ORGANIZATIONS

Council of Exceptional Children is a professional organization for students, parents, and professionals who are interested in or work with any handicapped or gifted children. Membership is open to all PSU students.

Criminal Justice Club (Lambda Alpha Epsilon) is open to all PSU students interested in promoting awareness of all areas encompassed by the criminal justice system.

National Art Education Association is open to any full or part-time undergraduate student not actually involved in the teaching of art for pay. The purpose of the chapter is to promote the values of art in the community and schools.

Phi Beta Lambda is a national organization open to all students majoring in business or business administration. Its purpose is to increase students' knowledge, while giving them the opportunity to develop business skills.

Phi Mu Alpha Sinfonia is a national music fraternity to encourage and promote the highest standards of creativity, performance, education, and research in music in America. Must have a 2.5 average.

Public Relations Student Society of America is an organization to encourage the understanding of current theories and procedures in the practice of public relations; to provide students of public relations with the opportunity to become acquainted not only with peers but with professionals as well; and to encourage students to adhere to the highest ideals and principles of the practice of public relations.

Student National Education Association is a division of the North Carolina Association of Education and is the state affiliate of the National Education Association.

RELIGIOUS ORGANIZATIONS

Religious organizations serving the Pembroke State University campus provide opportunities for spiritual enrichment, social activities, and religious service. They seek to integrate spiritual values, intellectual pursuits, and personal development.

The Baptist Student Union (BSU) is a student-led organization that is open to students from any denominational or religious background. The BSU has a weekly fellowship meeting called "AGAPE" which meets on Tuesday nights at 6:30 p.m. in "The House," a BSU facility which is located across from the Givens Performing Arts Center. The House is owned and operated by the North Carolina Baptist State Convention and houses offices for the Baptist campus Ministries at PSU as well as the Baptist Student Center.

Fellowship of Christian Athletes (FCA) is a student organization which meets twice a month for fellowship and devotion. It is open to all interested students.

Methodist Campus Ministry is an organization that serves to aid students in their educational pursuits and undergird them with a spiritual support through developing a support group of spiritual enrichment.

INTER-FRATERNITY COUNCIL

The purpose of the Inter-Fraternity Council is to develop and maintain fraternity life and interfraternity relations at a high level of accomplishment. It is a service organization whose primary goal is to promote the growth and well-being of all fraternities.

The member organizations of the Pembroke State University Inter-Fraternity Council are:

ALPHA OMEGA UPSILON was chartered at Pembroke State University in 1969 and is a local fraternity.

PI LAMBDA UPSILON—was chartered in the Fall of 1990 as a local fraternity.

SIGMA PHI SIGMA—was chartered in the Spring of 1990 as a local fraternity.

TAU KAPPA EPSILON was founded in 1899 at Illinois Wesleyan University. It represents the largest social fraternity in the United States with over 300 active

chapters. The Omicron Delta Chapter was chartered at Pembroke State University in 1983.

NATIONAL PAN-HELLENIC COUNCIL

The purpose of the National Pan-Hellenic Council is to create and maintain high standards in the life of fraternities and sororities and perpetuate constructive fraternity and sorority relationships.

The Council provides:

- A means for preserving the cultural heritage of the historically Black Greek organizations
- A forum for addressing items of mutual interest to the NPHC organizations
- An experience of self-governance necessary to the development of the emergent leader
- An opportunity for groups to recommend legislation to national headquarters

Affiliate organizations at Pembroke State University are:

ALPHA KAPPA ALPHA SORORITY, INC.—Founded in 1908 at Howard University. The sorority's programs include support for education, health care, and arts and leadership training for youths.

DELTA SIGMA THETA SORORITY, INC.—Founded in 1913 at Howard University. The sorority's programs include development in areas of education, mental health, housing and economics.

ZETA PHI BETA SORORITY, INC.—Founded in 1920 at Howard University. The sorority's programs include concern for academic excellence by providing scholarships and concern for young mothers' pre- and post-natal care.

KAPPA ALPHA PSI FRATERNITY, INC.—Founded in 1911 at Indiana University. The fraternity's programs include support for career opportunities, job placement, tutorial services and emergency loans.

PHI BETA SIGMA FRATERNITY, INC.—Founded in 1914 at Howard University. The fraternity's programs include support for civic groups, academic excellence, and scholarships.

OMEGA PSI PHI FRATERNITY, INC.—Founded in 1911 at Howard University. The fraternity's programs include support for NAACP financial assistance, scholarships to the United Negro College Fund, housing for senior citizens, voter registration drives and research grants.

PANHELLENIC COUNCIL

The Panhellenic Council is the governing body of the sororities. The sororities function as social organizations dedicated to enhancing the quality of life on campus. Each sorority supports a philanthropic project each year. The sororities are:

THETA KAPPA is known for making special visits to the Cancer Home, just outside of Lumberton. It promotes sisterhood and is located on the sixth floor of North Hall.

SIGMA SIGMA SIGMA Sorority was founded April 20, 1898 at Woodstock, Virginia. The Delta Theta Chapter at PSU was founded on April 6, 1974. Another name for Sigma Sigma Sigma is the Tri-Sigma Sorority. Each year the sisters of Tri-Sigma sponsor a Halloween Party for the children of the Lumberton and Laurinburg Hospitals, and the Odom Home. Also, they sponsor an "All School Christmas party" every year in the lobby of North Hall. The Sigmas are involved in several other campus activities and community projects throughout the year.

ZETA TAU ALPHA was founded in 1898 at Longwood College in Farmville, Virginia by nine young women. The chapter at PSU was chartered on September 7, 1973.

The sorority is both a social and service oriented group. Its national philanthropy is the National Association of Retarded Citizens (NARC). During the year, many other service projects as well as social functions are held also. Zeta strives in intensifying friendship, fostering a spirit of love, and promoting happiness.

PEMBROKE STATE UNIVERSITY INTER-GREEK COUNCIL

The Inter-Greek Council is the governing body of all Greek-letter organizations on the campus of Pembroke State University. The IGC is a service organization with a primary goal of promoting Greek life and its well-being. Composition of the IGC is representation from all campus Greek-letter social fraternities.

WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES

Students selected for inclusion in this publication are chosen by a joint faculty-student committee and are judged on their total contributions to the University rather than their academic achievements alone.

MISS PSU AND MISS HOMECOMING

Miss Pembroke State University is selected by a panel of professional judges at a pageant held on campus during the fall semester. The Miss PSU Pageant is a preliminary to the Miss North Carolina pageant. Miss Homecoming is selected by popular vote of the student body during the spring semester.

STUDENT HOUSING INFORMATION

An application for on-campus housing can be obtained from the Director of Student Housing, Pembroke State University, Pembroke, N.C. 28372. Room assignments are made in August preceding the fall semester and in December preceding the spring semester.

At Pembroke State University housing is an integral part of the educational program. Residence halls are considered to be more than merely places to sleep: they are “home” for a few years for many students. The University’s aim is to provide residence halls that offer an environment conducive to studying and to provide an opportunity for each student to develop socially and academically. Especially mature, well-qualified students are employed as hall counselors. Hall counselors have many duties; however, one of their primary duties is to extend the services of the Counseling and Testing Center into each room.

Residence halls are located within walking distance of all campus facilities including classroom buildings, library, cafeteria, snack bar, student union, bookstore, post office, and recreational facilities. A wide selection of campus recreational facilities and programs is available to all students. Students are encouraged to become involved in the different activities and student organizations on campus.

In order to reserve a room on campus, an application for housing and a \$75 housing deposit should be mailed to: Director of Housing, Pembroke State University, Pembroke, N.C. 28372. The deposit protects the student’s room reservation until he or she either graduates or terminates his or her stay on campus and is refunded provided the procedures listed below are followed.

Housing Deposit

1. Incoming new students: The University will refund all but \$25 of the room deposit if written notice of cancellation is received by August 1st, preceding the fall semester, and by December 1st, preceding the spring semester. After these dates the deposit is non-refundable. Applicants who are not accepted for admission will receive a full refund of their deposit.
2. Established residents: The \$75 housing deposit (less damages) will be refunded provided that the resident submits written cancellation by November 15th, preceding the spring semester, and by April 15, preceding the fall semester.

SUMMER HOUSING

Room and Board are available during both terms of the Summer Session. A \$75 deposit is necessary to secure a room.

Use of Air Conditioners in Residence Halls

Personal air conditioners are permitted in the residence halls subject to the following conditions:

1. The Housing Office will be notified of the student’s desire to have an air conditioner installed. Approval will be granted on a first-come, first-served basis, *subject to the electrical capacity* of the residence hall suite or floor.
2. An advance payment of \$40 for each regular semester or five-week summer session is required for installation and utilities.
3. A maximum of 6,000 BTU’s and 110V will be permitted.
4. Installation must be provided by University maintenance personnel upon

notification by the Housing Office. Removal from windows will also be done by maintenance personnel.

5. The University will not be liable for damage or theft.

MARRIOTT FOOD SERVICE

Student meal plans are not transferable under any circumstances, and each student must attach a current resident dining validation sticker to their campus I.D.

If a student loses his other meal card, the Director of Food Service will issue a 7 day temporary meal card at a cost of \$2.00. An additional \$3.00 charge will be assessed if the I.D. is not found and a new validation sticker must be issued.

All meal plans are valid 7 days a week, except during summer session.

UNIVERSITY COUNSELING AND TESTING SERVICES

Counseling services, personal and/or social, are provided for PSU students without cost. A variety of tests and assessment instruments are utilized to explore personality type, interests, and patterns of behavior. Students who are experiencing personal difficulties or who wish to increase their self-knowledge for personal growth and career planning purposes are encouraged to utilize these services.

The Counseling and Testing Center is located on the second floor, Room 243, of Chavis University Center. The Center is staffed by two professional counselors. Counseling is typically done by appointment, but emergency situations are addressed immediately. All counseling relationships are confidential.

STUDENT HEALTH CENTER

Pembroke State University is proud of its modern 22-bed infirmary, which provides 24-hour coverage. The Student Health Center's professional staff is composed of a part-time medical Director Physician who is in the clinic each afternoon on Monday, Tuesday, Thursday, and Friday and a full-time nursing staff. The Center provides a variety of medical and health services for all students.

N.C. Law requires that each student provide proof of immunizations. Any student who does not have the mandated immunizations and/or does not furnish the required medical statement within thirty (30) days of enrollment will be withdrawn from classes. The University has no authority to waive these requirements and/or give extension on the thirty (30) day time limit. A medical history and physical examination form which includes the required immunization documentation must be returned as part of the admission requirement prior to enrolling. The required immunizations that must include month-day-year are:

- a. Three D.P.T. (Diphtheria-Pertussis-Tetanus) or T.D. booster within 10 years regardless of age of student
- b. Three O.P.V. (Oral Polio Vaccine) doses if student is less than age 18 years when enrolling
- c. One Rubella (Red Measles) shot with live virus vaccine on or after (1st) birthday (not required if age 30 or above)

- d. One Rubella (German measles) shot with live virus vaccine on or after first (1st) birthday, or positive titu date (not required if age 50 or above)
- e. T.B. (Tuberculosis) skin test and results within one (1) year. (If skin test positive then chest x-ray and results within one (1) year)

CAREER PLANNING AND PLACEMENT SERVICES

The Career Planning and Placement Center, located on the second floor of the Chavis University Center, exists to assist students and alumni with career planning and with seeking and securing meaningful full-time employment. Students are afforded the opportunity explore career opportunities with recruiters from a large number of business firms, government agencies, and school systems which conduct on-campus interviews during the school year. This office also maintains and makes available to students and alumni a library of resources related to careers, employers, salary trends, the job market, graduate and professional schools, and part-time and summer employment opportunities. Workshops are held for students seeking assistance in improving their job-seeking skills in interviewing and resume writing.

All students are urged to register with the Career Planning and Placement Center and to complete a credential file when they become seniors, regardless of whether they have an immediate need for the service. The student's credential file, a major service offered by this office, may include an unofficial copy of the transcript, personal data form, letters of reference from professors, and a résumé. Upon request by a prospective employer or registered student, a set of the student's credentials is sent to the employer by the Career Planning and Placement Center.

Students whose records are in the active file are recommended to prospective employers and notified of specific job opportunities which meet each candidate's geographic and career field preferences and for which the candidate is qualified to apply.

Placement services are available to students/alumni as follows: Active registrant's credentials are kept in the active file for three years at which time the file must be updated. If the file is not updated, it will become inactive. Inactive files are kept for a period of five years. Alumni may opt to reapply for the services offered by the Career Planning and Placement Center at any time.

The Director is available for counseling with registrants who need information about job opportunities.

DISCIPLINE

Pembroke State University is an institution for the education of men and women who expect to take their places as responsible, trustworthy citizens of their country. It takes for granted that students will not be guilty of improper conduct.

The aim of all discipline is two-fold: first, to develop self-control in the individual; and second, to protect the welfare of society. Students who cannot or will not comply with the few and simple rules governing the student body are subject to dismissal. The institution reserves the right to decline to register students whose past

record is such as to indicate moral, scholastic, or general conduct unfitness. In addition to any costs for repair or replacement, penalties for vandalism will include a \$25 fine, social or residence life probation, or suspension from the University.

All students are expected to observe the rules and live by the general codes of conduct as stated above and enumerated in the Student Handbook. Students living on campus are expected to observe special rules applicable to resident students.

THE PEMBROKE STATE UNIVERSITY DRUG ABUSE EDUCATION AND PREVENTION PROGRAM

I. Introduction

Pembroke State University is committed to maintaining an environment that supports and encourages the pursuit and dissemination of knowledge. All members of the academic community share in the responsibility for protecting that environment by exemplifying high standards of professional and personal conduct. The University is dedicated to providing students, faculty and staff an environment to study, work and play that is free from illegal drugs. The illegal possession, sale or use of drugs by members of the academic community adversely affects the educational environment.

Consequently, the University has developed a comprehensive program of drug education, abuse prevention and intervention services for all members of the academic community, including officers, employees and students. All members of the University community are encouraged to become familiar with the program and are invited to take advantage of the services provided and to encourage persons with emerging chemical-dependency problems to take advantage of counseling and intervention programs.

II. Alcohol/Drug Education Program

An Alcohol/Drug Abuse Prevention Team (ADAPT) was initiated at Pembroke State University in response to a growing awareness of the need to provide all members of the University community with comprehensive and coordinated drug-related education, prevention, and intervention services. The term “drugs” includes both legal drugs (i.e., alcohol, prescription drugs, over-the-counter drugs, nicotine, caffeine, etc.) and illegal drugs as covered by the Controlled Substance ACT (N.C.G.S. 90-88 et. seq.). ADAPT defines its efforts as “prevention, early intervention, rehabilitation referral, and education” related to the abuse of alcohol and the use and abuse of controlled, illegal, addictive, or harmful substances.

The Alcohol/Drug Abuse Prevention Team (ADAPT) is chaired by a staff member of the Counseling and Testing Center. Team members represent significant expertise, experience and interest in the areas of drug education and intervention. They include administrators, Student and Business Affairs staff, health services representatives, faculty, students and community resource people. The ADAPT chairman prepares an annual report to the Chancellor, outlining all drug education, intervention, and enforcement activities at the University during the previous year.

A. The purpose of ADAPT is to coordinate activities that will encourage all students, faculty, and staff to:

1. Value and maintain sound personal health and understand how alcohol and other drugs affect health.
2. Respect state and federal laws and university rules concerning drugs.
3. Recognize and resist pressure to use drugs.
4. Promote activities that reinforce the positive, drug-free elements of campus and personal life.
5. Increase consciousness of the incompatibility of drug use and maximum achievements of personal and educational goals.
6. Make use of available campus and community counseling, medical and rehabilitation resources in dealing with drug abuse problems.

B. Educational programs/activities

1. Division of Student Affairs

- a. Yearly written notification informing every student of the consequences, including both criminal law and University discipline, of drug use and/or abuse, associated health risks, and available resources for counseling/rehabilitation.
- b. An anonymous drug knowledge/use survey of freshmen.
- c. A series of semi-structured, interactive “LIVING AND LEARNING” programs held in the residence halls.
- d. An observance of National Collegiate Alcohol Awareness Week.
- e. Periodic scheduling of educational programs during the Wednesday activity period.
- f. A selection of on-campus movies that reflect alcohol and drug issues.
- g. Alternative programming, such as “New Games” which promotes fun that is drug-free.
- h. A range of special events, speakers, workshops, and programs throughout the academic year, designed to address alcohol and drug issues.

2. Division of Academic Affairs

- a. A module of alcohol/drug information in all Orientation 100 classes.
- b. Academic credit courses in drug abuse prevention and chemical dependency.
- c. Academic credit courses in wellness and fitness.
- d. A University Wellness Program designed to promote “wellness” of the University community.
- e. Yearly written notification informing all faculty members of the consequences, both criminal law and University discipline, of drug use and/or abuse, associated health risks, and available resources for counseling/rehabilitation.

3. Division of Business Affairs

- a. PSU’s Employee Assistance Program (EAP) assists employees confidentially in finding solutions to personal problems, including drug and drug-related concerns. Consultation, assessment and referral are provided.

- b. Yearly written notification informing all faculty members of the consequences, both criminal law and University discipline, of drug use and/or abuse, associated health risks, and available resources for counseling/rehabilitation.

C. The Counseling and Testing Center provides:

1. Counseling for employees and students with drug or drug-related problems.
2. Adult Children of Alcoholic (ACOA) support groups, as needed.
3. Drug awareness workshops for administrators, faculty, staff, residence hall advisors, and student groups.
4. Psycho-educational events in a variety of formats and settings, designed to address such concerns as alcohol and relationship issues, self-esteem, basic drug information, co-dependency, and physical-emotional wellness.
5. Referral information for clients requiring hospitalization or inpatient rehabilitation services.
6. Schedules of area 12-Step meeting and support groups (AA, NA, Alanon, ACOA).
7. A library of multi-media materials on alcohol/drug related topics.

D. Suspension Pending Final Disposition

When a student, faculty member, administrator, or other employee has been charged by the University with a violation of policies concerning illegal drugs, he or she may be suspended from enrollment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the Chancellor or, in the Chancellor's absence, the Chancellor's designee concludes that the person's continued presence within the University community would constitute a clear and immediate danger to the health or welfare of other members of the University community; provided, that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible.

E. Penalties

Student, Faculty and Staff are subject to all local, state, and federal laws relating to drug abuse. Action on the part of the University is based upon its right to carry out its appropriate mission and is not designed to be merely punitive. University action is not dependent upon and does not preclude criminal or civil action in the courts.

Penalties will be imposed by the University in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators, and other employees, as required by Section 502D(3) and Section 603 of the University Code, by Board of Governors policies applicable to other employees exempt from the State Personnel Act, and by regulations of the State Personnel Commission. Faculty should refer to section 3-4 of the Faculty Handbook (Due Process Before Discharge or The Imposition of Serious Sanctions). Students should refer to the Student Government Association Constitution in the Student Handbook, Article IV (The University Hearing and Appeal System). SPA staff should refer to the

Personnel Manual, section 9, page 4 (Disciplinary Action, Suspension and Dismissal).

F. Annual Report

The Chancellor shall submit an annual report to the Board of Trustees on campus activities related to illegal drugs for the preceding year. A copy of the annual report shall also be provided to the President of University of North Carolina.

Students, Faculty and Staff are subject to all local, state, and federal laws relating to drug abuse. Action on the part of the University is based upon its right to carry out its appropriate mission and is not designed to be merely punitive. University action is not dependent upon and does not preclude criminal or civil action in the courts.

III. Institutional Policy on Drugs

The illegal possession, sale, or use of drugs (including alcohol) will not be tolerated at the University. Violation will result in sanctions which may include dismissal from employment or the termination of student status.

The following are the minimum penalties that shall be imposed for the particular offenses described below:

A. Trafficking in Illegal Drugs

- (1) For the illegal manufacture, sale or delivery or possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedule I, N.C. General Statutes 90-89 or Schedule II, N.C. General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualine), any student shall be expelled and any faculty member, administrator or other employee shall be discharged.
- (2) For a first offense involving the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, (including, but not limited to, marijuana, pentobarbital, codeine) the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. For a second offense, any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

B. Illegal Possession of Drugs

- (1) For a first offense involving the illegal possession of any controlled substance identified in Schedule I, N.C. General Statutes 90-89, or Schedule II, N.C. General Statutes 90-90, the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. The minimum penalty prescribed by State Personnel for employees that are subject to Personnel Act (SPA) is dismissal.

- (2) For a first offense involving the illegal possession of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, the minimum penalty shall be probation, for a period to be determined on a case-by-case basis. A person on probation must agree to participation in a drug education and counseling program, consent to regular drug testing, and accept such other conditions and restrictions, including a program of community services, as the Chancellor or the Chancellor's designee deems appropriate. Refusal or failure to abide by the terms of probation shall result in suspension from enrollment or from employment for any unexpired balance of the prescribed period of probation. The minimum penalty prescribed by State Personnel for employees that are subject to Personnel Act (SPA) is dismissal.
- (3) For second or other subsequent offenses involving the illegal possession of controlled substances, progressively more severe penalties shall be imposed, including expulsion of students and discharge of faculty members, administrators, or other employees.

C. Possession and Consumption of Alcoholic Beverage Regulations

- (1) Student fees collected by the institution cannot be used to purchase alcoholic beverages.
- (2) Where alcoholic beverages are provided by student host organizations, all alcoholic beverages should be purchased by the host organizations at market value. A proportionate amount of alternative beverages must be provided.
- (3) Alcoholic beverages may be used only as complements to an event, not as a main focus.
- (4) Alcoholic beverages cannot be advertised as being present at any student activities event.
- (5) Student events at which alcoholic beverages may be consumed can be held only under circumstances in which the host organization demonstrates reasonable means of ensuring the safety of participants and adherence to State law. Each event must be approved by the Office of Student Affairs.
- (6) Kegs are not permitted in the residence halls.
- (7) Possession and consumption of beer, unfortified wine, and spiritous liquor is only permitted in a student's residence hall room, provided the student is 21 years of age or older.
- (8) Pembroke State University continues to develop and implement additional policies, procedures, and programs which will promote the responsible use of alcohol by those students 21 years of age or older who choose to drink.

- (9) For offenses involving the illegal possession, consumption or excessive use of alcohol, requiring the involvement of the Campus Police and the Office of Student Affairs, the minimum penalty shall be probation. Terms of probation shall be determined on a case-by-case basis and may include mandatory participation in a drug education program and such other conditions and restrictions as the Chancellor or the Chancellor's designee deems appropriate. Failure to comply with the terms of probation or subsequent offenses will result in suspension from the University.

D. Suspension Pending Final Disposition

When a student, faculty member, administrator, or other employee has been charged by the University with a violation of policies concerning illegal drugs, he or she may be suspended from enrollment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the Chancellor or, in the Chancellor's absence, the Chancellor's designee concludes that the person's continued presence within the University community would constitute a clear and immediate danger to the health or welfare of other members of the University community; provided, that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible.

E. Penalties

Penalties will be imposed by the University in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators, and other employees, as required by Section 502D(3) and Section 603 of the University Code, by Board of Governors policies applicable to other employees exempt from the State Personnel Act, and by regulations of the State Personnel Commission. Faculty should refer to section 3-4 of the **Faculty Handbook** (due Process Before Discharge or The Imposition of Serious Sanctions). Students should refer to the Student Government Association Constitution in the *Student Handbook*, Article IV (The University Hearing and Appeal System). SPA staff should refer to the **Personnel Manual**, section 9, page 4 (Disciplinary Action, Suspension and Dismissal).

F. Annual Report

The chancellor shall submit an annual report to the Board of Trustees on campus activities related to illegal drugs for the preceding year. A copy of the annual report shall also be provided to the President of University of North Carolina.

Students, Faculty and Staff are subject to all local, state, and federal laws relating to drug abuse. Action on the part of the University is based upon its right to carry out its appropriate mission and is not designed to be merely punitive. University action is not dependent upon and does not preclude criminal or civil action in the courts.

VEHICLE PARKING AND REGISTRATION

Each motor vehicle, including two-wheeled vehicles, driven or parked on the campus by students, faculty, or staff must be registered in the Business Office and must display a valid parking permit. These parking permits can be purchased in the Cashier's Office for an annual fee of \$16 (commuter) or \$20 (dormitory resident).

Students, faculty, and staff members are all subject to traffic rules and regulations. It is each individual's responsibility to obtain a copy of the Traffic Rules and Regulations when he or she registers a vehicle in the Business Office. These regulations are strictly enforced by the campus police officers. Fines must be paid before any records can be released from the University. Conviction of a violation of the traffic laws while operating a vehicle on campus has the same effect on your driver's license as a conviction for the same offense on the public highways. The speed limit on campus is 20 mph and is enforced.

It is a privilege and not a right for a person to keep or operate a motor vehicle on the campus of Pembroke State University. Each student, faculty, or staff member must agree to comply with the traffic rules and regulations before keeping or operating a vehicle at Pembroke State University. The University reserves the right to withdraw motor vehicle privileges from any person at any time.

Parking facilities on campus are limited and on many occasions there will not be sufficient parking spaces available to accommodate all vehicles in their respective legal parking zones. In such instances, the driver concerned IS NOT PERMITTED to park in an illegal or restricted zone.

All parking fines are due to be paid within fifteen (15) days of the issuance date, unless they are appealed within those fifteen days. If appealed, payment of assessments will not become due until notification of the Traffic Appeal Board to the person being assessed of its decision not to reverse the citation, at which time payment must be made within fifteen days.



**STUDENT FINANCES
for
UNDERGRADUATE
PROGRAMS**

TUITION AND FEES

Tuition and all fees are due and payable in full by registration day for each semester or summer term. Please make checks or money orders payable to Pembroke State University. **A returned check charge of \$15 will be levied on each return check.**

It is the policy of the administration and trustees to keep the cost of a college education as low as possible. The fees now in effect are, however, subject to change without notice. Since Pembroke State University is maintained by the people of North Carolina for the education of residents of the state, it is available to them at less cost than to nonresidents. The residency status of each student is determined at the time of original admission. See page 52 for further information on residency status.

Registration for any semester or session may not be completed until all special or extra fees, fines, payments for lost or damaged articles, etc., incurred in the previous semester or session, have been paid; no transcript nor record will be issued until all fees owed have been paid.

Fees are subject to change without notice.

SCHEDULE OF UNDERGRADUATE EXPENSES PER SEMESTER
REGULAR SESSION

(Includes Tuition and General Fees)

Semester Hrs.	In-State	Out-of-State
1	\$ 70.00	\$ 629.00
2	70.00	629.00
3	70.00	629.00
4	88.00	647.00
5	88.00	647.00
6	157.00	1,276.00
7	318.00	1,437.00
8	318.00	1,437.00
9	388.00	2,065.00
10	388.00	2,065.00
11	388.00	2,065.00
12 or More	457.00	2,694.00

ROOM AND BOARD

If a student lives on campus, add \$1,135 for room and board per semester. (Note: Women assigned to North Hall will pay an additional \$60 per semester because of air conditioning.)

Students may select a 15-meal plan, valid seven days a week, at a reduction of \$30 or a 10-meal plan, valid seven days a week, for a reduction of \$60. A meal plan is mandatory for dormitory students, and changes will not be made after the first week of each semester.

Personal checks **should not be written** in excess of the cost of tuition and fees.

DETAILED EXPLANATION OF CHARGES**TUITION AND ACADEMIC FEES**

(Per Semester)

Tuition and Academic Fees

North Carolina Residents	\$278.00
Out-of-State Residents	\$2,515.00
Students taking 12 semester hours or more must pay this amount.	

GENERAL FEES

(Per Semester)

Health Services	\$50
This fee is used to operate the University Infirmary. All regular students taking 7 semester hours or more are required to pay this fee. (Student Accident and Sickness Insurance is optional and not included in the fees.)	
Other Required Fees	\$129
This fee is used to support various University programs, such as Athletics, Band & Chorus, Dramatics, and Student Center. A portion of these funds is allocated to the Student Government Association to support Student Government activities including Yearbook, Newspaper, and the Performing Arts Series. All students taking 7 hours or more are required to pay this fee. Students taking 4 to 6 hours will pay a prorated amount.	

MISCELLANEOUS FEES

Application Fee	\$15
This fee, paid at the time of initial application, is non-refundable and cannot be applied to meet any other charges.	
Graduate Fee (Undergraduate)	\$25
(Graduate).....	\$35
This fee must be paid at the time the student makes application for graduation. It is used to pay for the cap, gown, and diploma. This is a non-refundable fee.	
Late Registration Fee	\$10
Students who register for classes after the scheduled registration date has passed must pay this fee.	
Change of Course Fee	\$2
Student who voluntarily drop or add courses after the first day of classes in any semester must pay \$2 for each course involved.	
Dormitory Deposit Fee (refundable)	\$75
Key Deposit.....	\$10
Dormitory Students must pay a key deposit for their post office box.	
Vehicle Registration Fee (Commuter)	\$16
(Dormitory Resident).....	\$20

A vehicle registration permit is valid for one full year, commencing August 15. Permits sold after April 30 will be half price.

Transcript Fee	\$2
The initial copy of a transcript is free and each additional copy is \$2.	

*All fees are subject to change by the state legislature.

REFUND POLICY

Please allow two weeks for the processing of any refund request.

Tuition and Fees

If a student officially withdraws from the University during a regularly scheduled registration period, (s)he will receive a full refund of tuition and fees, except for a registration fee of \$10. For withdrawal after the end of the registration period, refunds for tuition and fees, except registration fee, will be made on a pro-rata basis.

No refund will be made for individual courses dropped after the regularly scheduled registration period, except during summer sessions.

No refunds under any condition will be made after the midpoint of the semester.

No degree or transcript of credits will be furnished until all financial obligations to the University have been satisfied.

Room and Board

If a dormitory student moves out of the dormitory prior to the close of registration, the room deposit will be forfeited. Meals will be prorated on a weekly basis.

No refunds for housing or meals will be made after registration unless the student *officially withdraws* from the University. A refund will be prorated on a weekly basis. No refunds for housing will be made after mid-semester under any condition.

Dormitory Deposit

1. Students living in dormitory—The \$75 dormitory deposit (less breakage) will be refunded provided:
 - (a) The student has notified the Housing Office in writing on or before the first Monday after Thanksgiving Holidays that (s)he will not need the room for the following Spring semester, or,
 - (b) The student has notified the Housing Office in writing on or before April 15 that (s)he will not need the room for the following fall semester.
2. Incoming new students—The dormitory deposit will be refunded provided the Housing Office has been notified in writing by July 15 (or within 10 days after acceptance) that (s)he is cancelling the room reservation for the fall semester.

Exceptions will be made only for draft into the military, physical incapacitation, and academic ineligibility. In each situation, the Housing Office must be provided

written proof. Failure to comply with the above will result in forfeiture of the room deposit.

TUITION WAIVER FOR PERSONS AT LEAST 65 YEARS OLD

Under the provision of Chapter 606, 1975 Session Laws, the Board of Governors at its meeting of September 12, 1975, adopted a resolution establishing rules permitting legal residents of North Carolina who have attained the age of 65 and who meet applicable admissions standards to enroll for courses tuition-free on a space-available basis. The 1977 Session of the General Assembly enacted a law effectively re-establishing, but modifying, this tuition waiver privilege established in the 1975 Session for persons at least 65 years old. The 1977 law (Chapter 901, 1977 Session Laws) modified in 1975 law in two respects: (1) it established, rather than merely authorized establishment of, the privilege; (2) it required, rather than prohibited, the counting of these students in the computation of enrollment for State funding purposes. Questions concerning tuition waiver may be directed to the Office for Business Affairs, Pembroke State University.

FINANCIAL AID

Pembroke State University makes every effort within the limitations of its available financial aid resources and University and Federal regulations to provide assistance to students who, without aid, would be unable to begin or continue their college education. Financial assistance is available in the form of scholarships, grants, loans, and part-time employment.

Financial aid is awarded on the basis of academic achievement and demonstrated financial need. The first responsibility of financing a student's education rests with the student and the student's family. A student's parents are expected to contribute towards his or her expenses insofar as they are able from income and assets. A student is expected to provide funds for his or her own education through savings, summer work, and other resources. Each student is considered individually on the basis of the family financial situation. The financial need of a student is determined by the resources available to the student and the University expenses. Since a student's financial aid award reflects the student's financial situation, it is confidential information and should not be made public by the University, the recipient, or anyone else.

All applicants for financial aid are required to complete the entire Financial Aid Form. These forms may be obtained from high school guidance counselors after January 1. The Financial Aid Form should be completed and mailed to College Scholarship Service, P.O. Box 6328, Princeton, NJ 08541 no later than March 15 to meet our priority date of April 15.

To be eligible to receive financial assistance, a person must be a U.S. Citizen or an eligible Non-citizen. A freshman or transfer student must meet all requirements for admission as a regular student (no restrictions or conditions to admission) to Pembroke State University. Returning students must be in good scholastic standing as defined in the FINANCIAL AID BROCHURE.

GENERAL SCHOLARSHIPS

*Indicates Endowed Scholarship

Academic Scholarship

The alumni and friends of Pembroke State University have provided funds to aid students who demonstrate above average academic ability and who are in financial need. The awarding of these scholarships is the responsibility of the Financial Aid Officer, with the approval of the Faculty Scholarship and Student Assistance Committee.

The Aetna Life and Casualty Foundation Scholarship

This scholarship is designed to help qualified students who, without such financial assistance, would possibly be unable to further their education. The scholarships are designed for academically talented students.

Alumni Endowed Scholarships*

The PSU Alumni Association through its Alumni Loyalty Fund awards scholarships to qualified incoming freshmen. Students are selected by the Admissions Office and must be sons or daughters of a PSU Alumni.

The Pattie L. Brayboy Endowed Memorial Scholarship*

This scholarship was established in memory of Pattie L. Brayboy, a graduate of Pembroke State University, class of 1967. Mrs. Brayboy was an outstanding educator and guidance counselor. She was respected by her students and peers and was dedicated to the intellectual development of her students for 21 years. The scholarship is to be awarded annually to a graduating senior from Purnell Swett High School who will be entering Pembroke State University. The student must have an overall B average in his/her senior year plus a strong recommendation from the guidance counselor and principal. The student must qualify for financial aid.

Morris L. Britt Kiwanis Scholarship

This scholarship is provided annually by the Kiwanis of Robeson Civic Club in memory of a long time Kiwanis member and Pembroke State University alumnus, Morris Lee Britt. The scholarship provides full tuition for the first year's study at Pembroke State to a graduate of Lumberton Senior High School who meets the qualifications of (1) proven scholarship, (2) extracurricular involvement, and (3) need. Priority is given to a student who also meets qualification standards for the Chancellor's Scholars Program.

Josh Brooks Memorial Scholarship: See next section Department of Sociology, Social Work, and Criminal Justice.

Dr. A. P. and Frances Dickson Scholarships

A Dickson Scholarship is awarded annually to a full-time undergraduate student who currently resides in Hoke County, N.C. Recipients are chosen by the financial

aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the trust.

James Boyer Ebert Scholarship: See next section Department of Biology.

Margaret S. Jones Endowed Scholarship*

This fund was established by friends of Pembroke State University in honor of Mrs. Margaret S. Jones, wife of former Chancellor Dr. English E. Jones, to aid students in obtaining their educational goals.

James Lee Love Scholarship

A Love Scholarship is awarded annually to a full-time North Carolina resident undergraduate student. Recipients are chosen by the financial aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the trust.

Reba M. Lowry Endowed Scholarship*

Established by Ira Pate Lowry in memory of his wife, Mrs. Reba M. Lowry, who served Pembroke State University for many years as Dean of Women and Chairman of the Department of Foreign Languages. Monies are awarded annually to a student based on scholarship and need.

William A. Roach Lumberton Rotary Club Scholarship

This is awarded annually to a resident of Robeson County who is in financial need, has demonstrated scholastic and leadership abilities, and is deserving. A status evaluation of his or her educational training will be provided by PSU. The scholarship is in memory of William A. Roach, a charter member of the Lumberton Rotary Club.

The Sampson Endowed Scholarship*

Established by family and friends of Oscar R. and Susie J. Sampson, this award is to be presented annually to a Native American student who has met all admission requirements to enroll, or is currently enrolled at Pembroke State University. The recipient must possess those qualities of integrity, leadership, scholarship, and service that Mr. Oscar R. Sampson held so dear. The recipient must be in need of financial assistance. The award will cover tuition and fees for the academic year. The recipient will be determined by the Financial Aid Officer, a Native American representative of the PSU administration or faculty, and two representatives of the Oscar R. Sampson family.

Sandhills Area Alumni Chapter Scholarship

To be eligible for this scholarship the student must be enrolled at Pembroke State University and a resident of one of the following counties: Moore, Hoke, Scotland, or Richmond. Scholarship awards are based on financial need. This scholarship was established by the Pembroke State University Sandhills Area Alumni Chapter.

The R.E. Smith, Jr., and Cora T.Y. Smith Scholarship

This scholarship has been designated for an academically talented Native American student demonstrating financial need.

Southern Bell Scholarship

The Southern Bell Scholarship is awarded annually to students who demonstrate and maintain high academic standards. At the discretion of the Financial Aid Office, students will be selected who also have documented a need for financial assistance.

The Student Government Association Awards

The Student Government Association of the University provides some funds, earned through the rental of refrigerators to dormitory residents, for academic and athletic scholarships. The awarding of these scholarships is the responsibility of the Financial Aid Officer with the approval of the Faculty Scholarship and Student Assistance Committee.

C.M. and M.D. Suther Scholarship

A C.M. and M.D. Suther Scholarship is awarded annually to a full-time North Carolina resident undergraduate student on the basis of academic standing and financial need. Recipients are chosen by the Financial Aid Office. Awards are non-renewable and vary in amount according to income available from the trust.

The Earl A. and Ophelia Thomas Endowed Scholarship*

This scholarship is awarded annually to two academically talented Native Americans, one male and one female, who demonstrate a need for financial assistance.

West-Point Pepperell Alamac Knitting Division Scholarship

These scholarships are awarded to students who demonstrate above average academic ability and who are in need of financial aid to be able to continue their undergraduate education.

SCHOLARSHIPS: DEPARTMENTS AND SPECIAL PROGRAMS

*Indicates Endowed Scholarship

CHANCELLOR'S SCHOLARS PROGRAM**The Marion F. Bass Endowed Scholarship***

This scholarship was established by Mr. Marion F. Bass, an alumnus of Pembroke State University and President of Marion Bass Securities Corporation of Charlotte, North Carolina and New York. This scholarship is to be awarded annually to an academically gifted student accepted into the Chancellor's Scholars Program. The award will normally be renewed to the recipient as long as he/she is in good standing at the University. However, the decision regarding renewal will be made annually.

Morris L. Britt Kiwanis Scholarship see GENERAL SCHOLARSHIPS.

Chancellor's Endowed Scholarship*

This scholarship is awarded annually to a Chancellor's Scholar, and it will normally be renewed to the recipient as long as he/she is in good standing at the University. However, the decision regarding renewal will be made annually.

Chancellor's Scholars Program Scholarship

Students qualifying for CSP scholarships receive full tuition and fees at the in-state rate for all four years of study. Chancellor's Scholars are selected on the basis of academic aptitude, achievement, motivation, and recommendation of the high school counselor.

Harry Hutchison Gibson Endowed Scholarship*

This scholarship is to be awarded annually to a Chancellor's Scholar, and it will normally be renewed to the recipient as long as he/she is in good standing at the University. However, the decision regarding renewal will be made annually. The recipient of the Scholarship is to be recommended by the Director of the Chancellor's Scholars Program and approved by the Chancellor.

The Gibson-MacLean Endowed Scholarship*

This Chancellor's Scholars Scholarship was established by Dr. Hector MacLean and Dr. M. Carr Gibson of Lumberton, N.C. The scholarship is to be awarded annually to an academically gifted student accepted into the Chancellor's Scholars Program. The award will normally be renewed to the recipient as long as the student remains in good academic standing at the University. The decision regarding renewal will be made annually.

Kayser-Roth Foundation Scholarship

This scholarship is to be awarded annually to a Chancellor's Scholar, and it will be renewed to the recipient as long as he/she is in good standing at the University.

Sara Lee Hosier Scholarship

Funded by Sara Lee Hosier, Lumberton, N.C., this scholarship is awarded annually to Chancellor's Scholars who reside in Robeson County. A recommendation by the Chancellor's Scholars Committee is required, and at the discretion of the Committee, the scholarship may be renewed as long as the recipients meet the requirements of the program.

DEPARTMENT OF AMERICAN INDIAN STUDIES**Pembroke Chamber of Commerce Endowed Scholarship***

This scholarship was established by the Pembroke Chamber of Commerce and is to be awarded to qualified students majoring in American Indian Studies.

Adolph L. Dial Endowed Scholarship*

This scholarship is awarded annually to a Pembroke State University student

majoring in American Indian Studies. The recipient of the scholarship is named by the Chairman of the Department of American Indian Studies.

Jane C. Oxendine Endowed Scholarship*

Lucy Jane, as she was known in school, is a 1944 graduate of Pembroke State College. This scholarship was established in January 1990 by PSU Alumni (Pembroke Area Chapter) friends and relatives, who have witnessed the sincere dedication of Mrs. Oxendine for the Native American culture and heritage. Awarded annually to a Native American student who shows interest in his/her culture through the American Indian Studies Department as a major (or minor) and is actively involved in the Native American Student Organization on campus.

DEPARTMENT OF ART

Gene Locklear Endowed Scholarship in Art*

This scholarship is awarded annually to an Art major. The recipient is selected on the basis of artistic ability and need.

DEPARTMENT OF BIOLOGY

James Boyer Ebert Scholarship

Funded by anonymous donors to honor Professor James B. Ebert, this scholarship is awarded annually to a pre-med or para-med student who is committed to a career as a medical/science professional. Consideration will also be given to deserving, highly qualified non-science majors whose attitudes exhibit inclinations for hard work, achievement, and humanitarian purposes.

DEPARTMENT OF COMMUNICATIVE ARTS

The James A. Comstock Memorial Scholarship

This scholarship is awarded annually to students majoring in the field of Broadcasting, with concentration in Broadcast Engineering and Operations. Students are assigned responsibility in telecommunications with WPSU and are prepared for positions as video engineers and operations specialists.

The Grace Loving Gibson Endowed Scholarship*

Established by students and friends of Grace E. L. Gibson, who taught composition, literature, journalism, and creative writing (1966-1986) in the Communicative Arts Department of Pembroke State University, the scholarship is awarded annually to a talented student writer majoring in communicative arts who has demonstrated creativity and ability in communication. The recipient will be chosen by a faculty committee from the Communicative Arts Department.

The John Green Memorial Endowed Scholarship*

Established in 1984 and endowed by generous contributions from *The Robesonian*, faculty members, and friends of the late John Green ('84), this scholarship is given

to a capable and energetic student who wishes to pursue a career in writing. It will be awarded to a student majoring in History, Journalism, or Creative Writing. The recipient will be chosen by a faculty committee from the History and Communicative Arts departments.

DEPARTMENT OF EDUCATION

John J. Brooks Memorial Endowed Teacher Scholarship*

Established by the Brooks family in memory of John J. Brooks who was an alumnus of the institution and a teacher in the Native American schools of Robeson County for many years. He was concerned that his people have an opportunity to further their education. The scholarships are first awarded to incoming Native American freshmen majoring in education and selected by the Scholarship Committee on the basis of academic promise, motivation, humanitarianism and financial need. The recipients must make satisfactory progress toward teacher certification and obligate themselves to teach a specified number of years in the Public Schools of Robeson County.

Anderson N. Locklear Endowed Memorial Scholarship*

Established by the descendants of Anderson N. Locklear in 1990 to honor the memory of this pioneer educator (1870-1934), who served for forty-two years as a teacher and principal in the Native American schools of Robeson County. Mr. Locklear was a member of the first class of the old Normal School (later to become Pembroke State University), where he served as a trustee for many years. Locklear Hall, which houses the Department of Art on the Pembroke State University campus, is named in his honor. Awarded annually to a Native American student majoring in teacher education, the scholarship may be renewed as long as the recipient is in good standing. Selection will be made by a committee composed of departmental faculty and a member of the Locklear family.

Pearlie Locklear Endowed Memorial Scholarship*

Awarded annually to a Native American student majoring in Early Childhood Education, this scholarship is made possible by gifts from the Pearlie Locklear Family. The recipient will be selected on the basis of academic achievement and financial need. The scholarship may be renewed as long as the recipient is in good standing at the University.

Purnell Swett Endowed Teachers' Fellowship Award*

Established by the Robeson County Indian Education Parent Committee, in honor of Purnell Swett, Robeson County School Superintendent, 1977-1989. An annual cash award of \$500 will be given to each of two outstanding American Indian students completing teacher education certification requirements and selected by the Teacher Fellowship Award Committee. The recipients make a two-year commitment to teach in the Public Schools of Robeson County.

Very Special People Supporters Special Education Scholarship

This full-semester tuition scholarship is awarded annually to a promising special education major who is a North Carolina resident. This fund was established by parents of special-needs children to encourage caring and competent students to work with people with handicaps.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION**Cecil A. and Frances Butler Endowed Scholarship in Physical Education***

Established in 1989 by the Cecil A. Butler Family, this academic scholarship is awarded annually to the student major (sophomore rank or above) who has the highest GPA in the Department of Health and Physical Education. The scholarship is renewable as long as he/she holds the highest GPA.

The Willie R. Harris, Sr. Endowed Golf Scholarship*

This scholarship has been established in memory of Willie R. Harris, Sr., a good friend of Pembroke State University, ardent golfer, and former manager of Riverside Golf Course, Pembroke, N.C. The contributing founders of the scholarship were friends and relatives of Mr. Harris. This endowed scholarship is to be awarded annually to a qualified member of the University Golf Team. The recipient of the Willie R. Harris, Sr. Golf Scholarship will be determined by the golf coach at Pembroke State University and must be fully admitted to the University by the Admissions Office. The decision to renew the scholarship will be made each year based on the student's performance and academic standing.

Kenneth P. Johnson Endowed Scholarship*

This scholarship is awarded annually to a Pembroke State University Student majoring in Health, Physical Education, and Recreation. The recipient is chosen by the faculty of the Health, Physical Education, and Recreation Department.

Willie D. Mayes, Jr. Memorial Endowed Wrestling Scholarship*

This scholarship is endowed by the fellow students, teammates, relatives, and fraternity brothers of the late Willie Mayes. The scholarship is awarded based on need to a rising sophomore, junior, or senior wrestler who most exemplifies Willie's leadership and determination. The recipient is selected by a committee headed by the wrestling coach.

The Pembroke State University Soccer Alumni Scholarship Endowment Fund*

Established in 1991 by PSU soccer alumni and friends in honor of all of the players, coaches, parents, and friends who have contributed to the development of the PSU soccer program, the fund will be used to support the athletic scholarship needs of the Pembroke State University soccer program. Scholarship recipients will be bound by the stipulations listed in the Pembroke State University Athletic Scholarship Agreement. PSU Soccer Scholarships are awarded on the recommendation of the PSU soccer coach.

DEPARTMENT OF HISTORY

William R. Bullard Scholarship

Awarded each year to a History major, this scholarship is made possible by a gift from William R. Bullard, Professor Emeritus of History. The recipient is chosen by the faculty of the History Department.

The John Green Memorial Endowed Scholarship*

Established in 1984 and endowed by generous contributions from *The Robesonian*, family members, and friends of the late John Green ('84), this scholarship is given to a capable and energetic student who wishes to pursue a career in writing. It will be awarded to a student majoring in History, Journalism, or Creative Writing. The recipient will be chosen by a faculty committee from the History and Communicative Arts departments.

Lela Butler Haynes Scholarship

Awarded each year to a History major, this scholarship is made possible by a gift from Loren L. Butler, II, Assistant Professor of History, in memory of his mother. The recipient is chosen by the faculty of the History Department.

Clifton Oxendine Memorial Endowed Scholarship*

This scholarship was established to honor the late Clifton Oxendine, who served Pembroke State University from 1939 to 1970, first as Dean of the College and then as Professor of American History. This scholarship is awarded annually to an American Indian student majoring in American History. The recipient will be selected by the faculty of the History Department on the basis of academic achievement.

Max M. Weinstein Memorial Scholarship

This scholarship is awarded annually to a history major selected by the faculty of the History Department. The recipient is selected on the basis of scholarship and need.

DEPARTMENT OF MUSIC

A. J. Fletcher Music Scholarship

This award is given annually to qualified freshmen and/or music students in their second or third year of study. The selection is made by the chairman of the Music Department and members of the Music Faculty Scholarship Committee.

Doris B. Johnson Endowed Scholarship*

This scholarship is awarded annually to a music major who is active in the Music Educators National Conference. The recipient is chosen by the Music Department Scholarship Committee.

Ira Pate Lowry Music Scholarship

This scholarship is awarded annually to a music major selected by the Music Department Scholarship Committee and presented by the committee chairman. The recipient is selected on the basis of musical talent, scholarship, and need.

Singer-Swinger Scholarship

A fund was established by the Singers and Swingers to provide financial assistance to students who are enrolled in one or more of the music performing groups on the Pembroke State University campus. These scholarships are awarded by the Music Department Committee on the basis of financial need, talent, and the needs of the University. The Music Scholarship Committee is made up of four faculty and three student members.

DEPARTMENT OF PHILOSOPHY AND RELIGION**Marshall W. Locklear Endowed Memorial Scholarship***

The Marshall W. Locklear Endowed Memorial Scholarship, established in 1990 by family and friends, is awarded annually to a Native American student who is working toward a degree in Religion. The recipient should be a candidate for the Ministry, or plan to go into some phase of full-time religious service. Selection will be made without regard for financial need by a faculty committee from the Department of Philosophy and Religion. The scholarship is renewable as long as the student makes satisfactory progress toward completion of the degree.

Ruth Martin Endowed Memorial Scholarship*

Established in 1990 and endowed by family, friends, alumni, colleagues, and church groups in memory of Miss I. Ruth Martin, Associate Professor of Religion (1935-1985), for her many years of service to the University and the community, the award is given annually to a student at Pembroke State who is a Religion major preparing for full-time religious service. The recipient is chosen by the faculty of the Department of Philosophy and Religion in consultation with the Financial Aid Officer. The age, sex, or race of the applicant is in no way a deterrent in the selection process.

DEPARTMENT OF PHYSICAL SCIENCE**James Boyer Ebert Scholarship**

Funded by anonymous donors to honor Professor James B. Ebert, this scholarship is awarded annually to a pre-med or para-med student committed to a career as a medical/science professional. Consideration also will be given to deserving, highly qualified non-science majors whose attitudes exhibit inclinations for hard work, achievement, and humanitarian purposes.

Linda D. Oxendine Memorial Endowed Scholarship*

Established in 1989 and endowed by contributions from family members and friends of the late Linda D. Oxendine, a longtime Pembroke State University

employee with the Physical Science Department, this scholarship is awarded annually to an outstanding student majoring in Physical Science.

DEPARTMENT OF POLITICAL SCIENCE

Walter L. Weisberg Memorial Endowed Scholarship In Political Science*

This scholarship was established by the Weisberg family in memory of Walter L. Weisberg, a professor of Political Science at Pembroke State University, 1975-1981. Recipients of the scholarship are selected by the faculty of the Political Science Department on the basis of academic achievement.

DEPARTMENT OF PSYCHOLOGY

Jetter Bernard Locklear Memorial Endowed Scholarship*

Established in 1988 by friends, family members, and Mrs. Francine Locklear in memory of her husband, this scholarship is awarded annually to an academically talented, economically disadvantaged Native American, who is pursuing a degree in the Human/Social Services. The recipient of the scholarship will have declared a major in Psychology, Sociology, or Social Work, and will be nominated by a Faculty Scholarship Committee representing these fields of study.

DEPARTMENT OF SOCIOLOGY, SOCIAL WORK, AND CRIMINAL JUSTICE

Beverly Enterprises/Kingsdale Manor Scholarship

This annual scholarship is offered to a junior majoring in Social Work with a concentration in Gerontological Social Work. Students are eligible to apply for this scholarship by being hard-working, and by expressing an interest in, and demonstrating an aptitude for social services for the elderly. The student is expected to complete his/her Senior Internship at Kingsdale Manor in Lumberton. The student will be selected by the Director of the Social Work Program and a representative of Beverly Enterprises/Kingsdale Manor.

Maurice Bodenstein-Holocaust Memorial Endowed Scholarship In Social Work*

This scholarship is given annually to a social work major for the purchase of textbooks. The faculty in social work will recommend a junior student, based on merit; the department chairman will confirm the award. This award honors the memory of Maurice Bodenstein, who survived the European death camps in World War II. After liberation, he became a social worker, assisting youngsters who survived the Holocaust. He helped them recover optimism and self-respect.

Josh Brooks Memorial Scholarship

This scholarship is offered to any Native American student pursuing a career in medicine or the health sciences. Selection of the recipient is made by a representative of the Children's Transplant Association from faculty nominations.

The David Osterneck Memorial Scholarship in Medical Sociology

This scholarship is awarded to undergraduate students preparing for careers in public health, medical social work, social epidemiology, and allied medical professions.

Isaac Shain Memorial Scholarship

This award is given yearly by Arthur Shain in memory of his father, Isaac. It is awarded to an individual student in the Department of Sociology, Social Work, and Criminal Justice for outstanding academic performance.

The Kayla Leigh Smith Memorial Scholarship

This annual scholarship was established by the Children's Transplant Association in memory of Kayla Leigh Smith, an infant from Robeson County, who died after undergoing a liver transplant in 1986. This scholarship is awarded on the basis of academic desire and financial need to upper-division students majoring in Social Work with an expressed interest in medical social work. The recipient is chosen by the faculty of the Social Work program and a representative of the Children's Transplant Association. The scholarship will be offered for the fall and the spring semesters.

The Mary Bradley Snead Scholarship is Social Work

This is an annual Social Work Scholarship offered by Southeastern Family Violence Center. The Scholarship is awarded to an rising senior who has demonstrated sensitivity to women's issues and who will complete the senior internship at Southeastern Family Violence Center. Ethnic minorities are given priority. The recipient is screened by the Social Work Faculty and is selected by the Director of Southeastern Family Violence Center.

ARMY ROTC PROGRAM**Faye Nye Lewis Endowed Scholarship***

This scholarship is awarded annually to a sophomore ROTC candidate who has completed his or her freshman year as a Reserve Officers Training Corps (ROTC) student. It will be based on overall achievement as judged appropriate by the ROTC Commander and a faculty committee. The selection must be approved by the Vice Chancellor for Academic Affairs.

GRANTS**North Carolina Tuition Grants**

Funds for tuition grants, allocated by the North Carolina Legislature, are made available on an annual basis to residents of North Carolina in attendance at Pembroke State. These grants are limited to basic tuition costs.

Pell Grants

This program is for students who have financial need. The U.S. Government fixes the amount of financial assistance a student may receive under the Pell Grant on the

basis of need. These grants are awarded upon enrollment in good standing in an institution of higher education. Applications are available in the University's financial Aid Office and any high school guidance counselor's office. To apply for a Pell Grant a student must complete the appropriate application and indicate in the appropriate section that he/she wants to be considered for a Pell Grant. A Student Aid Report will be sent to the student's home address. The student must submit all copies of the Student Aid Report to the Financial Aid Office whether or not he/she is eligible for a grant.

Supplemental Educational Opportunity Grants

The purpose of this program is to provide Supplemental Educational Opportunity Grants to students who have demonstrated need and who would be unable to enter or remain in college without such assistance. Recipients must show academic or creative promise. The grant may be renewed for each year of under-graduate study for a period of up to four years if the student continues to qualify for assistance. Students must reapply each year.

North Carolina Student Incentive Grant Program

This program is administered by College Foundation, Inc. Funds are provided to the Foundation by the North Carolina State Education Assistance Authority under the 1965 Higher Education Act, as amended, from state and federal appropriations. To qualify for a North Carolina Student Incentive Grant (NCSIG), a student must be a legal resident of North Carolina, be accepted for enrollment as a regular student or be enrolled full-time in good standing in an undergraduate program, and must demonstrate a "substantial financial need" as determined through the need analysis system of College Scholarship Service or American College Testing Program. Grants are based on an individual student's demonstrated need in relation to resources and the cost of education, but may not exceed \$1,500 per academic year.

To apply for NCSIG, the student's parents and/or the student and spouse must complete the Financial Aid Form (FAF), check Item 79, include the appropriate fee, and mail it to the processor no later than March 1. All North Carolina residents are encouraged to apply for this grant.

All students applying for the NC Student Incentive Grant must also apply for the Pell Grant.

Vocational Rehabilitation Scholarships

Students who have physical disabilities which constitute vocational handicaps are eligible for scholarships from the North Carolina Vocational Rehabilitation Department. For information, qualified students should write to the Department of Vocational Rehabilitation, Raleigh, N.C.

Minority Presence Grant Program

Under the Board of Governors general Minority Presence Grant Program, Black students may be eligible for special financial assistance if they are residents of North

Carolina, enrolled for three or more hours of degree credit course work, and demonstrate financial need.

American Indian Student Legislative Grant Program

Established by the NC General Assembly, this program provides assistance for resident North Carolina Indians who demonstrate financial need according to federal guidelines. Recipients must be enrolled at least half time in a regular degree-seeking program and maintaining satisfactory academic progress.

LOAN FUNDS

Perkins Loan

Assistance is available in the form of loans which bear no interest while the student is enrolled at least half-time in an institution of higher education. Interest begins to accrue at the rate of five (5) percent and payment begins nine months after the borrower ceases to be enrolled in at least a half-time course of study. Repayment may be extended over a period of ten years as long as a minimum repayment of \$30 per month or \$90 per quarter is made.

Loans are made to entering freshmen and transfer students who are enrolled as regular students and to returning students who are in good academic standing and who can demonstrate financial need. The Perkins Loan program is funded by the federal government.

N.C. State Scholarship Loan Fund for Prospective Teachers

Students desiring loans of this type should make applications to the North Carolina State Department of Public Instruction, Raleigh, North Carolina. This fund provides as much as \$2000 per year in financial aid for a prospective teacher. Repayment of the loan is canceled for recipients who teach four years in North Carolina public schools.

Memorial Emergency Loan Fund

This is a revolving loan fund. This fund was established through the efforts of Mr. Lacy Maynor, a former Judge of Records Court.

Herbert G. Oxendine Memorial Emergency Loan Fund

This fund was established by friends of the late Dr. Herbert G. Oxendine who for many years taught at Pembroke State University. Because of Dr. Oxendine's great interest in education and in Pembroke State University, it was the desire of his many friends to establish a fund in his name to aid students in furthering their education.

James Fulton Lowry Memorial Emergency Loan Fund

The Fund was established in memory of one of Pembroke's business leaders. Mr. Lowry, for many years, was President of the Pembroke State University Alumni Association. It was his desire that every student who wanted to further his education be given the opportunity to do so.

Steve Brooks Memorial Emergency Loan Fund

Mrs. Lela H. Brooks established this fund as a memorial to her dearly beloved son Steve. He was killed in a tragic automobile accident in 1962 while a Senior at Pembroke State College. Mrs. Brooks was concerned that the children of other mothers be able to stay in school and graduate in spite of financial problems.

L. W. Jacobs Memorial Emergency Loan Fund

The Mt. Airy and Harpers Ferry Baptist Churches established this fund in honor of Rev. L. W. Jacobs who served this community for over half a century as a pastor and who served as Chairman of the Board of Trustees of Pembroke State University for over thirty years. Rev. Jacobs was keenly aware of the financial problems many students face as they endeavor to continue their education and he believed that all qualified people should be afforded an educational opportunity.

Robert T. Stafford Student Loan Program (Formerly Guaranteed Student Loans)

The Stafford Loan Program in North Carolina is administered by College Foundation, Inc., Raleigh, N.C. To obtain an insured loan, a student must complete the Financial Aid Form to establish eligibility on the basis of financial need. Repayment of these loans begins six months after a student ceases to be enrolled at least half-time. The interest begins at the time of repayment and is calculated at eight (8) percent until the end of the fourth year of the repayment period and then ten (10) percent beginning with the fifth year of repayment for new borrowers who have no outstanding balance on Stafford Loans.

Students interested in obtaining a loan under this program may obtain information from College Foundation, Inc., P.O. Box 12100, Raleigh, NC 27605.

Out-of-state students should contact their bank or state higher education assistance concerning state administered guaranteed student loan programs. Addresses are available in the Financial Aid Office.

STUDENT EMPLOYMENT

The student employment programs help eligible students pay University expenses while attending classes full time. Students participating in the programs are employed with the Maintenance Department, Library, Cafeteria, Switchboard, Administrative and Departmental Offices, and Laboratories.

The student employment programs consist of the University Self-Help Program and the College Work-Study Program, which is a federal assistance program. To participate in the programs, a student must have a completed application for aid on file in the Financial Aid Office.

A student's work schedule will depend upon class schedules and can be arranged by the student and the student's work supervisor. These jobs provide learning opportunities as well as financial aid.

VETERANS

Veterans who enter the University under Chapter 31, Title 38, U.S. Code, Vocational Rehabilitation for Disabled Veterans, and have the approval of the Veterans Administration will have their University fees paid directly to the University by the U.S. Government.

Veterans eligible for the G.I. Bill, Chapter 30, Title 38, U.S. Code effective October 19, 1984, and Chapter 32, Title 38, United States Code, effective January 1, 1977, must make application for their benefits. For information regarding eligibility, or application forms, contact the Veterans Administration, Regional Office, 251 North Main Street, Winston-Salem, N.C. or the Financial Aid Office, Pembroke State University. Transfer students on the G.I. Bill should complete VA Form 21E-1955, Request for Change of Program or Place of Training, prior to the time they plan to transfer.

Once the veteran is enrolled, he/she must attend classes regularly to continue receiving benefits. Each veteran will complete an attendance roster bimonthly and file with the Financial Aid Office on campus. This will be checked by the Financial Aid Office to assure the VA Regional office that veterans remain eligible for benefits.

NC National Guard, Chapter 106

Upon enlistment in the North Carolina National Guard, students will be eligible to apply for up to \$500 per year tuition assistance, with a maximum of \$2,000 over a four-year period. The Tuition Assistance program was established by the North Carolina Legislature to provide educational assistance for members of the North Carolina National Guard. For further information students can write to NORTH CAROLINA ARMY NATIONAL GUARD, Educational Opportunities, Att: AGRR, 4105 Reedy Creek Road, Raleigh, NC 27607.

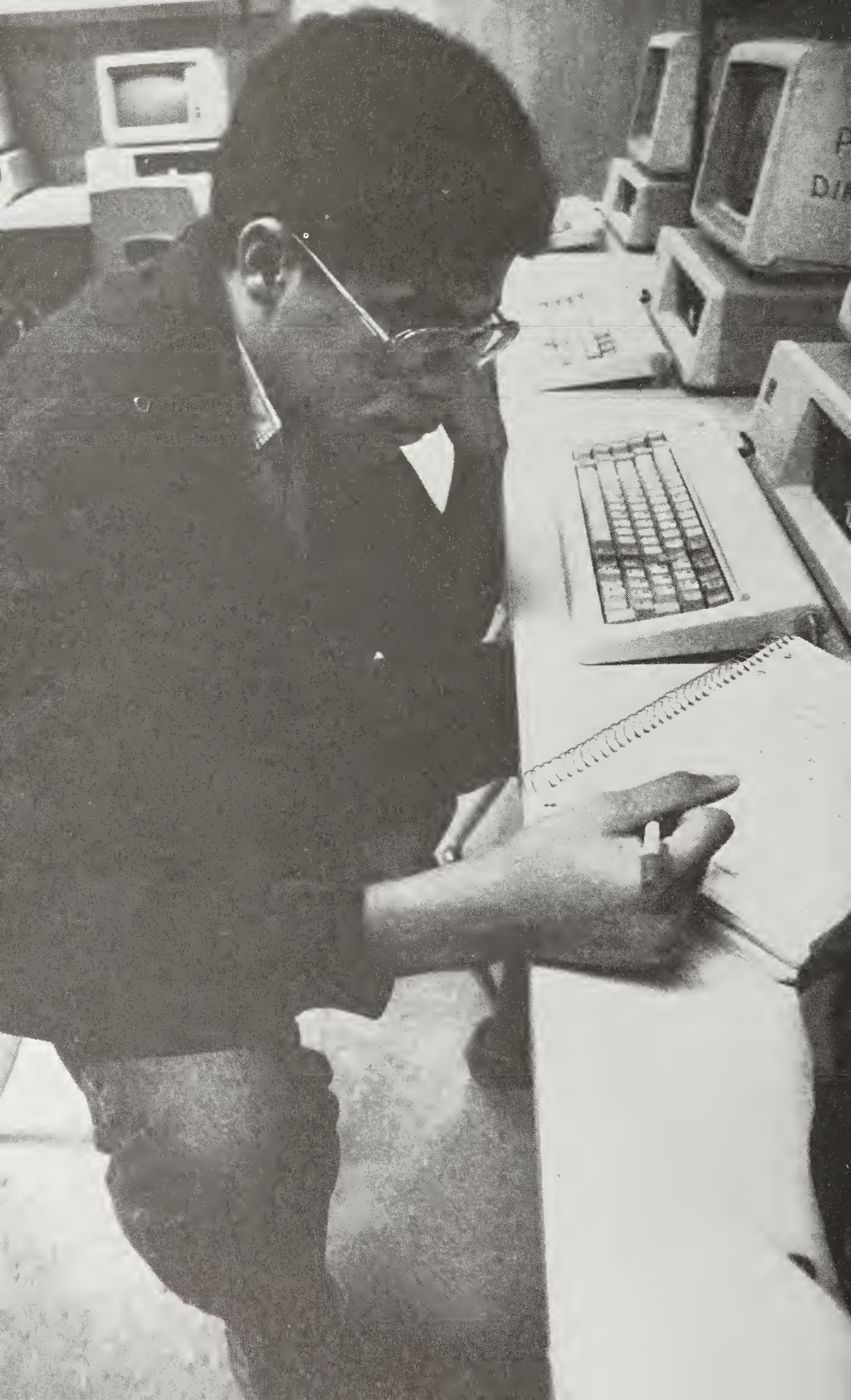
VETERAN DEPENDENTS

Children of disabled or deceased veterans may receive financial assistance in the payment of tuition, room, meals, and other required University fees. For information and application forms, students should write to the North Carolina Department of Veterans Affairs, Raleigh, N.C.

Chapter 35, Title 38, U.S. Code provides for the training of sons, daughters, spouses, and widows of veterans who died in service; who died as a result of a service-connected disability; who became permanently and totally disabled as a result of a service-connected disability; or who have been listed as missing in action, captured, detained, or interned in line of duty by a foreign government or power.

Students enrolling under provisions of Chapters 30, 32, 35 and 106 will pay fees at the time of registration and receive a monthly education and training allowance from the Veterans Administration. Since the first check is usually delayed, a veteran should make arrangements as early as possible.





**COURSES OF
INSTRUCTION
for
UNDERGRADUATE
PROGRAMS**

UNIVERSITY ORIENTATION

Coordinator: Norma J. Thompson

A university education is a unique experience. Although people sometimes mistakenly think of it as only a continuation of secondary education, it requires certain attitudes and skills that go far beyond what students have needed previously. One of its most distinctive features is its direct confrontation with the limitations of human knowledge. Whereas in high school we relied on teachers and textbooks writers to decide difficult issues, at the University we move into a domain where experts routinely disagree and many moral issues have no simple answers. Out of this experience, we learn a new respect for skepticism, open-mindedness, and our own creativity.

The University also introduces us to much greater personal freedom and independence. Often we move away from the security of our families into the exciting world of dormitory life. This change forces us to budget our own time and to sustain our own motivation for achievement.

Finally, the content of a university curriculum is more difficult to comprehend and retain than anything we have faced before. We read technical, specialized material and learn words we have never seen. We are asked to identify key ideas on our own and to review for comprehensive examinations.

All of these considerations suggest that new students should receive special instruction preparing them for the unique challenges of university life. Accordingly, Pembroke State University has developed a course entitled University Orientation. This course is a regular academic endeavor, with lectures, examinations, and academic credit. Its content is summarized in the description presented below. Students are encouraged to participate actively in this course and to prepare carefully for its examinations. Such effort may prove more valuable than any other activity undertaken during one's first months at the University.

COURSE (ORI)

100. University Orientation

General introduction to the academic substance, study methods, and special adjustment problems of university life. Conducted by faculty from various departments, with a common syllabus. Required of all incoming freshmen during their first fifteen credit hours of course work at the University. Pass/Fail grading. Fall, Spring, Summer. Credit, 1 semester hour.

AMERICAN INDIAN STUDIES

Chairperson: LINDA OXENDINE

JOHN R. BOWMAN
DAVID K. ELIADES
ROBERT K. GUSTAFSON
ADOLPH L. DIAL, Resident Consultant

STANLEY KNICK
ROBERT W. REISING
RALPH L. STEEDS

Pembroke State University was established in 1887 as an institution for Native Americans. Since 1953, it has had a multi-racial student body.

Because of its heritage, the University, through this Department, offers a program to educate students about the rich diversity of American Indian history and culture, to promote research and scholarship concerning American Indian issues, and to prepare students for professional or scholarly careers.

The Department offers a Bachelor of Arts degree and a minor in American Indian Studies. Students are encouraged to select courses that touch on as many different aspects of American Indian history and culture as possible.

Requirements for a Bachelor of Arts Degree in American Indian Studies

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	30
AIS 210 (or HST 210), 213 (or REL 213), 220 (or CMA 220), 301, 360, 458 (or SOC 458) or 395, 427 (or ART 427)	21
Six hours from the following:	
AIS 302, 324, 325, 401, 402, 450, 455	6
AIS electives	3
Electives	47
Total	128

Requirements for a Minor in American Indian Studies

AIS 210 (or HST 210) and 18 additional semester hours of AIS courses or their crosslisted equivalents.	21
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Academic Concentration in American Indian Studies

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Department of American Indian Studies offers an Academic Concentration of 24 hours. Please see the Department Chairperson for details about this concentration. This Academic Concentration is available to other students, regardless of major.

COURSES (AIS)**DEPARTMENTAL****201. American Indian Culture**

An introductory survey of American Indian cultural traditions through the study of film, art, oral and written literature, music, and religion. Fall, Spring. Credit, 3 semester hours.

239. American Indian Education

A study of the history of Indian education policy and practice in the United States focusing on traditional tribal methods as well as contemporary federal, state, and tribal programs. Fall, Spring. Credit, 3 semester hours.

301. Contemporary Issues of American Indians

This seminar-style course examines the principal issues of concern to American Indians in the twentieth century. Both national and local in scope, topics include: politics; economics; treaty relationships with federal and state governments; education; alcohol and substance abuse; the environment; cultural identity and survival; relation with non-Indians; religious freedom; land and water rights; tribal sovereignty; and other contemporary issues as they arise. Fall, Spring. Credit, 3 semester hours.

302. Workshop in American Indian Studies

A workshop designed especially for elementary and secondary school teachers. Special emphasis will be given to aspects of Indian history, textbooks, and their treatment of the American Indian and contemporary Indian problems. Consideration will also be given to American Indian writers, to Indian culture and to the changing lifestyle of the people. Topics of special interest will be discussed. General procedure will be determined by the interest and enthusiasm of the groups. Summer. Credit, 3 semester hours.

360. History and Culture of the Lumbee

A study of the history and culture of the Lumbee Indians, the largest tribal group east of the Mississippi. While the focus will be primarily historical, all facets of Lumbee culture will be treated including the economic, political, and religious structure of the people as well as artistic and literary accomplishments. Fall, Spring. Credit, 3 semester hours.

395. Archaeology in North Carolina

This course approaches archaeology as a way to learn about human beings. Special emphasis will be placed on prehistoric Indian cultures of North Carolina, and especially those of Robeson County. Topics will include: application of archaeology to present day issues; recovering and caring for archaeological materials; stages of Indian prehistory; theoretical and practical issues which face the archaeologist; etc. Weather permitting, some field excursions will be included. Credit, 3 semester hours.

404. Field Methods in Archaeology

In this course students will perfect proper use of field methods and techniques in archaeology. Topics will include site reconnaissance, systematic sampling of surface and sub-surface materials, excavation, and record keeping. Summer. Credit, 3 semester hours.

455. American Indian Historical Sites

The Historical Sites Study will stress American Indian culture and will include visits to museums, reservations, and historic sites. Summer. Credit, 1-4 semester hours.

460. American Indian Health

Prerequisite: Junior standing or permission of the instructor.

This course examines nutritional, cultural, demographic, and socio-economic aspects of health in American Indian from prehistoric times into the present; these will be evaluated with a view to lessons for modern Indian health practitioners. Topics also include effects of European contact on Indian health, modern health problems in Indian communities, and traditional Indian medical practices. As announced. Credit, 3 semester hours.

499. Independent Study in American Indian Studies

Prerequisite: Consent of Instructor

Directed reading and research under the guidance of the instructor in a specific area or problem in American Indian Studies. Fall, Spring, Summer. Credit, 3 semester hours.

ANTHROPOLOGY**105. Introduction to Cultural Anthropology (SOC 105)**

A survey of the various processes and conditions involved in cultural growth and change, including the relation between technology, religion, art, literature, language, and personality development. Emphasis is placed on human ecology and contacts between cultures. Fall. Credit, 3 semester hours.

458. American Indians Before Columbus (SOC 458)

An introduction to the study of ecological adaptations by North America's original inhabitants, with emphasis on nine culture regions: Inuit, Canada, Plateau, Great Basin, California, Pacific Northwest, Mississippi, Calusa, and Eastern Woodlands. Theories of Origin, including Goodman's American Genesis hypothesis, will be examined. Scientific methods of artifact dating will be considered. A research project is required. Spring of 1988 and alternate years. Credit, 3 semester hours.

ART**427. North American Indian Art History (ART 427)**

A survey course of the range of artistic expression of the North American Indians, from prehistoric to the 20th century. The course will cover paintings, sculpture, types of habitation, crafts, and ceremonial arts. Alternate Spring. Credit, 3 semester hours.

COMMUNICATIVE ARTS (LITERATURE)**220. American Indian Literature (CMA 220)**

An introduction to American Indian Literature. Texts written, collected, or edited by American Indians will be used whenever possible. Spring, Summer. Credit, 3 semester hours.

450. Seminar in Native American Literature (CMA 450)

A study of selected topics in American Indian literature. Fall. Credit, 3 semester hours.

HISTORY**210. History of the American Indian (HST 210)**

A survey of the major Indian cultures in North America with emphasis on those located in the eastern half of the United States. Fall, Spring. Credit, 3 semester hours.

324. Indians of Latin American (HST 385)

A study of the history, culture, and contemporary achievement of the Indians residing south of the Rio Grande. Fall. Credit, 3 semester hours.

325. Indians of the Southeast

A thorough examination of the history, culture, interaction, and present condition of the major tribes of southeastern America. Fall. Credit, 3 semester hours.

401. Colloquium on American Indian History

Prerequisite: Permission of the instructor.

Investigations into selected topics in American Indian history through the reading of significant books, discussions, and supplementary reports. Fall, Spring, Summer. Credit, 3 semester hours.

402. Federal Policy and the American Indian

Prerequisite: Permission of the instructor.

A study of federal policy as it related from the Colonial period to the present. Fall. Credit, 3 semester hours.

RELIGION**213. American Indian Religious Traditions (REL 213)**

This course is designed as an introduction to the contributions that American Indian religious traditions make to the general study of religion. As such it is a survey of the various traditions and practices of American Indians. Spring. Credit, 3 semester hours.

ART

Chairman: PAUL VAN ZANDT

ALICE ARNOLD
STANLEY R. JENKINS

RALPH L. STEEDS

The Department of Art fulfills an ever-increasing need by contributing to the cultural life and experiences of the whole University, as well as providing many opportunities for the artistic and intellectual development of those who have chosen a fine art as a professional goal. Art develops an understanding and an appreciation of the beauty of everyday life. The Art Department provides the gifted student with a professional foundation as an artist and/or as a teacher.

In conjunction with other parts of the University, the Art Department offers the following programs leading to the Bachelor of Arts degree and the Bachelor of Science degree with teacher education certification for teaching at the K-12 level.

Before graduating from either program, a senior is required to present an acceptable exhibition of his work from his area of concentration.

Requirements for a Bachelor of Arts Degree**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
Thirty semester hours of lower level art studios: 100, 101, 102, 105, 109, 111, 132, 133, 140, 250,	
Six semester hours, advanced History of Art	
Twelve semester hours, Area of Concentration: Sculpture, Ceramics, Printmaking, or Painting	
Nine semester hours, Area of Secondary Interest: Sculpture, Painting, Ceramics, Printmaking	57
Electives	20
	<hr/>
Total	128

*Students who plan a major in Art should consult the Department Chairman prior to registering for Basic Studies Courses.

**Entry into the BA Art Studio Program is by portfolio review. A student may also enter the program on a conditional basis. When that student has successfully completed 9 semester hours of introductory studio art courses, he/she may be considered for acceptance into the art program as a Major in Studio Art.

Requirements for a Bachelor of Science Degree with Teacher Education Certification for Teaching at the K-12 Level (see p. 76 for Teacher Education).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
Thirty semester hours of lower level art studios: 100, 101, 105, 107, 109, 111, 132, 133, 140, 250	
Six semester hours, advanced History of Art	
Six semester hours, one area of advanced art studio	
Nine semester hours, Art Education: 108, 306, 308	51
Professional Education Requirements:	
EDN 202, 227, 308, 419, 430, 445, 448; ART 400	25
Electives	1
Total	128

*Students who plan a major in Art should consult the Department Chairman prior to registering for Basic Studies Courses.

Requirements for a Minor in Art

The Minor in Art is designed to offer a fundamental background in Art for the non-Art major. Eighteen semester hours are required.

- Required core of 12 hours
 - ART 101—Elements of Design—3 hours
 - ART 111—Introduction to Ceramics—3 hours
 - ART 132—Introduction to Drawing—3 hours
 - ART 306—Art Education in Grades 7-12

Plus 6 hours Art Electives (May be taken after necessary prerequisite where applicable.)

Academic Concentration in Art

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Art Department offers an Academic Concentration of 27 hours. This Academic Concentration is available to other students, regardless of major.

Course Number	Course Title	Semester Hours
Required Courses:		
ART 101	Elements of Design	3
ART 102	Three-Dimensional Design	3
ART 132	Introduction to Drawing	3
ART 205	History and Appreciation of Art	3
Choose five other courses from the following:		
ART 105	Introduction to Sculpture	3
ART 107	Photography	3
ART 109	Figure Drawing	3
ART 111	Introduction to Ceramics	3
ART 133	Introduction to Paintings	3
ART 140	Introduction to Printmaking	3
ART 210	Introduction to Jewelry	3
ART 306	Art Education in Grades 7-12	3
Total		27

COURSES (ART)

100. Art Concepts

A study of the theories and philosophies of the visual arts. An introductory analysis of visual art concepts with emphasis on contemporary theories and their relationships to the history of art. A directed readings and seminar course aimed at developing an awareness of visual art and individual concepts of creative endeavor. Fall. Credit, 3 semester hours.

101. Elements of Design

A study and application of design principles in creative two-dimensional projects in line, value, color and texture. Fall. Credit, 3 semester hours.

102. Three-Dimensional Design

Prerequisite: ART 101.

A study and application of design principles in creative three-dimensional projects in mass and space using various materials. Spring. Credit, 3 semester hours.

105. Introduction to Sculpture

A survey course aimed at studying the problems of mass and space in sculpture. Various materials and sculptural techniques will be explored. Fall. Credit, 3 semester hours.

107. Photography

An introduction to the basic technical and aesthetic principles of still and motion photography. Fall.

108. Art Education in Grades K-6

This course focuses on the creative abilities of the elementary school child. The course will explore the graphic abilities of the child. The philosophy of sequential learning, and various production techniques and processes appropriate for elementary school. In addition to creating and executing production lesson plans, students will learn to discuss exemplary works of art with the elementary student. Fall, Spring. Credit, 3 semester hours.

109. Figure Drawing

A course to introduce the student to the figure as an art form. Various techniques will be explored. Fall. Credit, 3 semester hours.

111. Introduction to Ceramics

Introduction to basic forming and decorating methods of ceramics. The student will study mixture glazes from recipes. Basic firing procedures and ceramic aesthetics will be introduced. Fall, Spring. Credit, 3 semester hours.

132. Introduction to Drawing

A course designed to acquaint the student with the basic principles of media and terminology of drawing. Fall, Spring. Credit, 3 semester hours.

133. Introduction to Painting

An introduction to color, structure, and pictorial organization. Various techniques and group criticism will be implemented. Fall, Spring. Credit, 3 semester hours.

140. Introduction to Printmaking

Prerequisite: ART 132.

A course offering the basic techniques and procedures in printmaking. Studio projects include problems in intaglio, wood cuts, wood engravings, and the collograph. Fall, Spring. Credit, 3 semester hours.

205. History and Appreciation of Art

A course designed to establish an understanding of art, to develop an appreciation for the relation between art and man, and to study art in a cultural environment. Fall, Spring. Credit, 3 semester hours.

210. Introduction to Jewelry

Prerequisite: ART 132.

A course designed to equip the student with the basic knowledge of jewelry formation using silver construction techniques. Fall, Spring. Credit, 3 semester hours.

220. Intermediate Jewelry

Prerequisite: ART 210.

A course designed to equip the student with the basic knowledge of complex jewelry formation and decorating using construction and casting techniques. Fall, Spring. Credit, 3 semester hours.

250. Communication Design

Prerequisite: ART 151.

An introduction to applied lettering, layout, illustration, typography, and general graphic design. Spring. Credit, 3 semester hours.

306. Art Education in Grades 7-12

This course focuses on the creative abilities of students in grades 7 through 12. The course will explore various processes and techniques appropriate for upper level students, different styles of learning (including those of students with special needs), and techniques of classroom maintenance and management. Fall, Spring. Credit, 3 semester hours.

308. Art Education Field Experience

Prerequisites: ART 108, 306.

This course provides the art education major with an early field experience teaching art in a variety of educational settings. The student will develop curricula, unit plans, and lesson plans that respond to the unique features of the learning environment. Fall, Spring. Credit, 3 semester hours.

315. Advanced Sculpture I

Prerequisite: ART 105.

A study and application of three-dimensional principles and techniques used to formulate a creative expression. Spring. Credit, 3 semester hours.

316. Advanced Sculpture II

Prerequisite: ART 315.

Advanced study in sculpture devoted to developing skills, techniques, and exploration of new materials. Spring. Credit, 3 semester hours.

320. Advanced Drawing

Prerequisite: ART 132.

Continued development of drawing skills with emphasis on sustained media exploration. Special attention will be given to the development of conceptual approaches and contemporary trends in drawing.

331. Advanced Painting I

Prerequisites: ART 132, 133.

A course designed to broaden perceptive awareness in the areas of composition, space, and color theory. Fall, Spring. Credit, 3 semester hours.

332. Advanced Painting II

Prerequisite: ART 331.

Continued development of painting skills with the emphasis on sustained media exploration. Fall, Spring. Credit, 3 semester hours.

341. Advanced Ceramics I

Prerequisite: ART 111.

A studio course in which wheel-thrown pottery is emphasized. Fall, Spring. Credit, 3 semester hours.

342. Advanced Ceramics II

Prerequisite: ART 341.

An advanced study of problems in the production of sets and formulation of original glazes. Fall, Spring. Credit, 3 semester hours.

350. Advanced Printmaking I

Prerequisite: ART 140.

Advanced study in the intaglio and relief printmaking processes and the introduction of screen printing techniques. Fall, Spring. Credit, 3 semester hours.

351. Advanced Printmaking II

Prerequisite: ART 350.

Advanced study in intaglio, relief, or screen printing printmaking processes and the introduction of the lithographic printing processes and techniques. Fall, Spring. Credit, 3 semester hours.

360. Problems Seminar I*

Prerequisite: Approval of Department Chairman.

Credit is obtained by successful fulfillment of a contractual agreement between the student, supervision faculty and Department Chairman. As announced. Credit, 1-3 semester hours.

361. Problems Seminar II*

Prerequisite: Approval of Department Chairman.

A course designed to afford the talented student the opportunity to explore in-depth an area of study not traditionally emphasized in the art curriculum. Credit is obtained by successful fulfillment of a contractual agreement between the student, supervising faculty, and Department Chairman. As announced. Credit, 1-3 semester hours.

400. Art Education Curriculum

Prerequisite: ART 108, 306, 308.

Through a study of the historical developments in the field of art education, the art education major will come to understand the current "discipline based" approach to curriculum development in the visual arts. A goal for the course is the integration of the domains of art production, art history, aesthetics, and art criticism into sequential units and lessons, that reflect the cultural diversity of the population being served. Fall, Spring. Credit, 3 semester hours.

407, 408. Art Supervision

Restricted to the advanced major who is supervising only in his area of concentration or secondary interest and has junior or senior standing.

Designed for advanced art majors to obtain experience in directing beginning students in studio techniques. As announced. Credit, 1-3 semester hours.

*Problems seminars may be used for further study after successfully completing the four advanced courses of concentrated study.

409. Advanced Printmaking III

Prerequisite: ART 351.

Advanced study in the lithographic printing processes and further study in intaglio, relief, and screen printing processes and techniques. Fall, Spring. Credit, 3 semester hours.

410. Advanced Printmaking IV*

Prerequisite: ART 409.

Advanced study in any of the four basic printmaking processes with special focus on experimental and multi-media printmaking processes and techniques. Fall, Spring. Credit, 3 semester hours.

415. Advanced Sculpture III

Prerequisite: ART 316.

Advanced study devoted to developing advanced aesthetics and independent motivation in sculpture. Spring. Credit, 3 semester hours.

416. Advanced Sculpture IV*

Prerequisite: ART 415.

A course in sculpture devoted to developing the student's creative expression in sculpture according to his or her own talents and experiences. Spring. Credit, 3 semester hours.

421. Ancient and Medieval Art History

A survey of architecture, sculpture, painting and other arts from prehistoric times to the Italian Renaissance. Alternate Fall or Spring. Credit, 3 semester hours.

422. Renaissance Art

A survey of the art of Northern Europe and Italy during the fifteenth and sixteenth centuries. Alternate Fall or Spring. Credit, 3 semester hours.

423. Modern Art History

A study of the artists and art schools that evolved in Europe during the 19th century. Alternate Fall or Spring. Credit, 3 semester hours.

424. Contemporary Art History

A study of the artists, theories, and art schools that evolved in Europe in the 20th century. Alternate Fall or Spring. Credit, 3 semester hours.

425. European Art History, 1600-1800

A survey of European painting, architecture, and sculpture including the Baroque, Rococo, Neo-classic, and Romantic periods. Fall, Spring. Credit, 3 semester hours.

426. Art History of the United States

A study of painting, architecture, and sculpture of the United States from Colonial times to the present, with an emphasis on 20th century art. Alternate Spring or Fall. Credit, 3 semester hours.

427. North American Indian Art History (AIS 427)

A survey course of the range of artistic expression of the North American Indians, from prehistoric to the 20th century. The course will cover paintings, sculpture, types of habitation, crafts, and ceremonial arts. Alternate Spring. Credit, 3 semester hours.

*Problems seminars may be used for further study after successfully completing the four advanced courses of concentrated study.

435. Advanced Painting III

Prerequisite: ART 332.

An exploration of the various manners and approaches to creative painting and their relationship to the individual's experience. Fall, Spring. Credit, 3 semester hours.

436. Advanced Painting IV*

Prerequisite: ART 435.

A course for the student's personal development of individual expression in painting. Fall, Spring. Credit, 3 semester hours.

441. Advanced Ceramics III

Prerequisite: ART 342.

An advanced studio in which both wheel-thrown and hand-constructed ceramic forms are emphasized. Fall, Spring. Credit, 3 semester hours.

442. Advanced Ceramics IV*

Prerequisite: ART 441.

The assignment of creative ceramic problems in line with individual student interests and needs. Fall, Spring. Credit, 3 semester hours.

460. Problems Seminar III*

Prerequisite: Approval of Department Chairman.

Credit is obtained by successful fulfillment of a contractual agreement between the student, supervising faculty, and Department Chairman. As announced. Credit, 1-3 semester hours.

461. Problems Seminar IV*

Prerequisite: Approval of Department Chairman.

A course designed to afford the talented student the opportunity to explore in-depth an area of study not traditionally emphasized in the art curriculum. Credit is obtained by a successful fulfillment of a contractual agreement between the student, supervising faculty, and Department Chairman. As announced. Credit, 1-3 semester hours.

499. Independent Study in Art

Prerequisites: Introductory course in chosen area and approval of Department Chairman.

Directed reading, research, and problem solving in the student's major or secondary area of interest. This course is designed to fulfill individual and specific needs of art majors in their particular area of advanced study. Fall, Spring. Credit, 3 semester hours.

*Problems seminar may be used for further study after successfully completing the four advanced courses of concentrated study.

BIOLOGY

Chairman: HAROLD D. MAXWELL

ANDREW N. ASH
SUE BOWDEN*
BONNIE A. KELLEY

DAVID K. KUO
JOSEPH A. McGIRT
DAVID D. ZIEGLER

*Biology Education Coordinator and Science Education Coordinator

The objectives of the Biology Department are to afford students an opportunity to gain an understanding of themselves and their environment and thus prepare themselves for taking a fuller, more satisfying role in society; to train students in their ability to reason inductively and deductively; to encourage original thought; to prepare teachers in the biological sciences for the elementary and secondary school; and to provide a background in subject matter and laboratory skills for curricula in which the fundamentals of the various sciences are used.

The department offers the following programs leading to the Bachelor of Science degree in Biology with indicated concentration or certification. Students should consult the department head for details of each program.

- 1. Biology
- 2. Biology with Teacher Certification
- 3. Biology—Medical Technology Program
- 4. Biology—Pre-podiatric Medicine Program
- 5. Biology—Biomedical Emphasis
- 6. Biology—M.A.R.C. Program

In addition the department offers a curriculum leading to the B.S. degree in Science Education with Concentration in Biology. For Requirements for the B.S. Degree Program in Science Education with a Major in Biology, see **Special Programs** section of this catalog.

Core of Required Courses (required for all degree programs in biology)

	Sem. Hrs.
Orientation	1
Basic Studies Requirements	50 (38)*
Required Biology Courses	
BIO 100, 100L, 101, 102, 304, 371, 472	24
Biology Electives	9
Chemistry 100, 101, 110, 111	8
Mathematics 107, 210	6
(MAT 215 is required for many programs, MAT 221 and 222 will also satisfy the Mathematics Requirement.)	
	<hr/> 86
*12 semester hours of Natural Sciences and Mathematics will count toward Basic Studies and toward major requirements	

Additional requirements apply to specific programs.

BIOLOGY

Requirements for a Bachelor of Science Degree in Biology

Core of Required Courses (above)	Sem. Hrs.
MAT 215	86
Electives	4
	38
Total	128

Sequence of Courses for a Bachelor of Science Degree in Biology

First Year							
Fall				Spring			
ORI	100	Univer. Orientation	1	CMA	106	Composition II	3
CMA	105	Composition I	3	MAT	215	Calculus with	
MAT	107	College Algebra	3			Applications	4
CHM	100&110	General Chemistry	4	CHM	101&111	General Chemistry	4
BIO	100&L	Prin. of Biology	4	BIO	102	General Zoology	4
PED			1	PED			1
			16				16
Second Year							
Fall				Spring			
BIO	101	General Botany	4	BIO		Elective	3-4
Basic Studies		(Humanities)	3	Basic Studies		(Humanities)	3
Basic Studies		(Social Sciences)	3	Basic Studies		(Social Sciences)	3
Basic Studies		(Humanities)	3	Basic Studies		(Humanities)	3
MAT	210	Intro. to Statistics	3			Elective	3-4
			16				15-17
Third Year							
Fall				Spring			
BIO	Elective		3-4	BIO		Elective	3-4
BIO	304 or 371		4	BIO	304 or 371		4
Basic Studies		(Social Sciences)	3	Basic Studies		(Humanities)	3
Basic Studies		(Humanities)	3	Basic Studies		(Social Sciences)	3
	Elective		3-4			Elective	3-4
			16-18				16-18
Fourth Year							
Fall				Spring			
BIO	472	or BIO Elective	3-4	BIO	472	or BIO Elective	3-4
	Electives		13		Electives		13
			16-17				16-17

BIOLOGY-TEACHER CERTIFICATION

Requirements for a Bachelor of Science Degree with Teacher Certification (see p. 78 for Teacher Education Requirements)

Biology-Teacher Certification

Goals and Objectives for Biology-Teacher Certification Program

1. to develop a basic understanding of living systems: including levels of organization, physiology, genetics, interrelationships, and evolution
2. to develop a basic understanding of the nature of science: including philosophy and methodology
3. to develop a basic understanding of the interrelationships among the fields of science and between science and society
4. to contribute to the personal development of each individual
5. to develop an awareness of career opportunities in Biology
6. to develop an understanding of the methods and curriculum of Biology and other sciences
7. to develop communication skills and classroom management skills necessary for effective teaching
8. to develop awareness of safety precautions specific to instruction in science

Requirements for a Bachelor of Science Degree with Teacher Certification (see p. 78 for Teacher Education Requirements)

	Sem. Hrs.
Orientation	1
Basic Studies	50 (38)*
Required Biology Courses	27
BIO 100, 100L, 101, 102, 304, 371, 422, 472	
Biology Electives	6
Chemistry	12
CHM 100, 110, 101, 111, 300	
Mathematics	9
MAT 107, 210, CSC 405	
Physics PHS 150	3
Earth Science GLY 115	3
Professional Education Requirements	
EDN 202, 227, 308, 419, 430, 445, 448	22
SCE 300, 301, 400	6
Electives	1
	128

*12 semester hours of Natural Sciences and Mathematics will count toward Basic Studies and toward major requirements.

Sequence of Courses for a Bachelor of Science Degree with Teacher Certification

First Year

Fall				Spring			
CMA 105	Composition I	3		CMA 106	Composition II	3	
BIO 100 & L	Prin. of Biology	4		CHM 101 &			
CHM 100 & 110	General Chemistry	4		111	General Chemistry	4	
Basic Studies	(Humanities)	3		Basic Studies	(Humanities)	3	
ORI 100	University Orientation	1		Basic Studies	(Social Science)	3	
PED		1		MAT 107	College Algebra	3	
				PED		1	
			16				17

Second Year

Fall				Spring			
BIO 101	General Botany	4		BIO 102	General Zoology	4	
Basic Studies	(Humanities)	3		Basic Studies	(Humanities)	3	
MAT 210	Intro. to Statistics	4		EDN 202	Educational		
EDN 227	Found of Education I	3			Psychology	3	
Basic Studies	(Social Science)	3		Basic Studies	(Social Science)	3	
				Basic Studies	(Humanities)	3	
				SCE 300	Early Exp. for Sci.	1	
					Teachers		
			17				17

Third Year

Fall				Spring			
PHY 150	College Physics	3		GLY 115	Earth Science	3	
BIO 304	Prin. of Ecology	4		BIO 371	Cell Biology	4	
EDN 308	Psychology of Adoles.	3		BIO Elective		3-4	
CHM 300	Organic Chemistry	4		BIO Elective		3-4	
Basic Studies	(Humanities)	3		Basic Studies	(Social Science)	3	
			17				16-18

Fourth Year

Fall				Spring			
SCE 301	Practicum	2		SCE 400	Method Teaching	3	
EDN 430	Mainst. Except				Science in		
	Stud. Sec.	1			Second. Sch.		
EDN 419	Reading in Content			EDN 445	Found. of Education II	3	
	Area	3		EDN 448	Student Teaching,	6	
BIO 472	Prin. of Genetics	4			Secondary		
BIO 422	Evolution	3					
CSC 405	Computers in						
	Education	3					
			16				12

BIOLOGY—MEDICAL TECHNOLOGY

Requirements for a Bachelor of Science Degree in Biology with Emphasis in Medical Technology (see p. 90 for a description of this program.)

	Sem. Hrs.
Core of Required Courses (above)	74
(Except BIO 304 and BIO Electives)	
BIO 212, 315 (in lieu of BIO Electives)	8
CHM 300, 301	8
PHY 150, 151, 206, 207	8
CSC 100	3
BUS 307	3
Clinical Work in Approved Hospital	35
Total	139

Sequence of Courses for a Bachelor of Science Degree in Biology with Emphasis in Medical Technology

First Year					
Fall			Spring		
CMA 105	Composition I	3	CMA 106	Composition II	3
BIO 100&L	Principles of Biology	4	BIO 101	General Botany	4
MAT 107	College Algebra	3	CHM 101&111	General Chemistry	4
CHM 100&110	General Chemistry	4	Basic Studies	(Humanities)	3
Basic Studies	(Humanities)	3	Basic Studies	(Social Science)	3
ORI 100	Univ. Orientation	1			
		18			17
Second Year					
Fall			Spring		
BIO 102	General Zoology	4	BIO 315	Microbiology	4
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry	4
MAT 210	Intro. to Statistics	4	CSC 100	Intro. to Comp. Sci.	3
Basic Studies	(Humanities)	3	Basic Studies	(Humanities)	3
PED		1	Basic Studies	(Social Science)	3
		16	PED		1
					18
Third Year					
Fall			Spring		
PHY 150	College Physics	3	PHY 151	College Physics	3
PHY 206	Physics Lab	1	PHY 207	Physics Lab	1
BIO 371	Cell Biology	4	BIO 212	Human Physiology	4
BIO 472	Prin. of Genetics	4	BUS 307	Prin. of Management	3
Basic Studies	(Humanities)	3	Basic Studies	(Humanities)	3
Basic Studies	(Social Science)	3	Basic Studies	(Social Science)	3
		18			17

Fourth Year

Clinical Training in Approved Hospital Program - 35

BIOLOGY—PRE-PODIATRIC MEDICINE

Requirements for a Bachelor of Science Degree in Biology-Pre-Podiatric Medicine Program (see p. 91 for a description of this program.)

	Sem. Hrs.
Core of Required Courses (above) (Except BIO 304)	83
BIO 211, 212, 461	12
CHM 300, 301, 311, 312	12
PHY 150, 151, 206, 207	8
MAT 215	4
Classroom and Clinical work at Pennsylvania College of Podiatric Medicine	30
Total	149

Sequence of Courses for a Bachelor of Science Degree in Biology Pre-Podiatric Medicine Program

First Year

Fall				Spring			
CMA	105	Composition I	3	CMA	106	Composition II	3
BIO	100&L	Prin. of Biology	4	BIO	102	General Zoology	4
MAT	107	College Algebra	3	CHM	101&111	General Chemistry	4
CHM	100&110	General Chemistry	4	MAT	215	Calculus (with appl.)	4
Basic	Studies	(Humanities)	3	Basic	Studies	(Humanities)	3
ORI	100	Univ. Orientation	1	PED			1
			18				18

Third Year

Fall				Spring			
BIO	371	Cell Biology	4	BIO	472	Genetics	4
CHM	311	Biochemistry	3	BIO	461	Animal Physiology	4
CHM	312	Biochemistry Lab	1	PHY	151	College Physics	3
PHY	150	College Physics	3	PHY	206	Physics Lab	1
PHY	206	Physics Lab	1	Basic Studies		(Humanities)	3
Basic Studies		(Humanities)	3	Basic Studies		(Social Science)	3
Basic Studies		(Social Science)	3	PED			1
<hr/>				<hr/>			
18				19			

Fourth Year

Classroom and Clinical Work at the Pennsylvania College of Podiatric Medicine

BIOLOGY—BIOMEDICAL EMPHASIS**Requirements for a Bachelor of Science Degree in Biology with Biomedical Emphasis** (See p. 90 for a description of this program)

	Sem. Hrs.
Core of Required Courses (above)	86
BIO 211, 212, 315, 461	16
CHM 226, 227, 300, 301, 311, 312	20
PHY 150, 151, 206, 207	8
MAT 215	4
	<hr/>
	134

Sequence of Courses for a Bachelor of Science Degree in Biology with Biomedical Emphasis**First Year**

Fall				Spring			
CMA	105	Composition I	3	CMA	106	Composition II	3
BIO	101&L	Principles of Biology	4	BIO	102	General Zoology	4
MAT	107	College Algebra	3	MAT	215	Calculus (with appl.)	4
CHM	100&110	General Chemistry	4	CHM	101&111	General Chemistry	4
ORI	100	Univ. Orientation	1	Basic Studies		(Humanities)	3
<hr/>				<hr/>			
15				18			

Second Year

Fall				Spring			
BIO	101	General Botany	4	BIO	212	Human Anat. &	
BIO	211	Human Anat. &				Physio.	4
		Physio.	4	CHM	207	Classical Meth.	
CHM	226	Elem. Inorganic				Anal.	4
		Chem.	4	Basic Studies	(2 Humanities)		6
Basic Studies	(Humanities)		3	Basic Studies	(Social Science)		3
MAT	210	Intro. to Statistics	4				
			19				17

Sequence of Courses M.A.R.C.: Training Program in Biology**First Year**

Fall				Spring			
CHM	100&110	General Chemistry	4	CHM	101&111	General Chemistry	4
BIO	100&L	Prin. of Biology	4	BIO	102	General Zoology	4
MAT	107	College Algebra	3	BIO	101	General Botany	4
ORI		University Orientation	1	CMA	106	Composition II	3
CMA	105	Composition I	3	Basic Studies		(Humanities)	3
Basic Studies		(Social Sciences)	3				

Fourth Year

Fall				Spring			
BIO	304	Principles of Ecology	4	BIO	461	Animal Physiology*	4
BIO	221	Comparative Anatomy	4		or		
BIO	499	Research in Biology	3	BIO	472	Genetics	
BIO	495	Biomedical Seminar	1	PHY	151	College Physics	3
PHY	150	College Physics	3	PHY	207	Physics Lab	1
PHY	206	Physics Lab	1	BIO	499	Research in Biology	3
				BIO	495	Biomedical Seminar	1
					Basic Studies	(Social Science)	3
<hr/>				<hr/>			
16				15			

*Animal Physiology is taught in alternate years.

Academic Concentration in Biology

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Biology Department offers an Academic Concentration of 25 hours.

Required Courses

Course Number	Course Title	Semester Hours
BIO 100	Principles of Biology	3
BIO 100 L	Principles of Biology Lab	1
BIO 101	General Botany	4
BIO 102	General Zoology	4
BIO 103	Basic Human Biology	3
BIO 210	Conservation and Environment	2
BIO 371	Cell Biology	4
CHM 100, 110	General Chemistry	4
<hr/>		
Total		25

COURSES (BIO)

Biology 100, Principles of Biology, is a prerequisite to all other Biology courses except Biology 207, History of Biology, and Biology 210, Conservation and Environment. These two courses have no prerequisites. Biology 101, General Botany, is a prerequisite for all other botany courses. Biology 102, General Zoology, is a prerequisite for all other zoology courses.

100. Principles of Biology

An introduction to modern and classical biology concepts. Fall, Spring. Three lectures weekly. Credit, 3 semester hours.

100L. Laboratory Investigations and Experiences in General Biology

Prerequisite: Enrollment in or credit for Biology 100.

Introductory laboratory experiments in which basic principles of biology will be investigated. Fall, Spring. Credit, 1 semester hour.

101. General Botany

Introductory plant science with emphasis on morphology and physiology of the seed plants and a survey of representative types from the plant kingdom. A prerequisite to all other courses in botany. Fall, Spring. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

102. General Zoology

A study of the major animal systems, processes and phyla. A prerequisite to all other courses in zoology. Fall, Spring. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

103. Basic Human Biology

Prerequisite: BIO 100 or permission of instructor.

An elementary study of the human body in health and disease. This course will relate fundamental knowledge about human anatomy and physiology to current issues. Questions such as "how do birth control pills work?" and "what causes cancer?" will be explored. Not open to biology majors. Fall, Spring. Three lectures weekly. Credit, 3 semester hours.

201. Economic Botany

A study of the origin, distribution, propagation and use of the economically important plants. Fall of odd-numbered years. Three lectures weekly. Credit, 3 semester hours.

203. Vertebrate Zoology

The biology of the major groups of vertebrate animals with emphasis on general structural and physiological plans and diversity. A valuable course for any curriculum but strongly recommended for those students who plan to take only one higher level zoology course. Spring of odd-numbered years. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

207. History of Biology

An introduction to the major ideas of biology and their development. Fall of even-numbered years. Three lectures weekly. Credit, 3 semester hours.

210. Conservation and Environment

A study of our natural resources emphasizing: (1) the role natural resources have played in promoting our economic well being, (2) the techniques and policies by which these resources can be intelligently managed and utilized, and (3) the urgency for halting resource abuse and the deterioration of environmental quality. Fall, Spring. Two lectures weekly. Credit, 2 semester hours.

211, 212. Human Anatomy and Physiology

A course covering the structure and function of the human body. Appropriate physiological exercises and dissections of a mammal are performed concurrently in the laboratory. Fall, Spring. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

221. Comparative Anatomy

Comparative studies of the various organs and systems of vertebrates and laboratory emphasis on the lamprey, dogfish shark, salamander, and the cat. Fall of odd-numbered years. Two lectures and two, two-hour laboratories weekly. Credit, 4 semester hours.

222. Embryology

Early developmental biology leading to organogenesis. Laboratory emphasis on the chick. Spring of odd-numbered years. Three lectures and one two-hour laboratory period weekly. Credit, 4 semester hours.

231. Morphology of the Non-Vascular Plants

A comprehensive survey of the algae, fungi, and bryophytes dealing with structure, form, and reproduction. Fall of even-numbered years. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

232. Morphology of the Vascular Plants

A continuation of Biology 231, a survey of the plant kingdom with emphasis on selected types of vascular plants. Spring of odd-numbered years. Three lectures and one two-hour laboratory weekly. Credit, 4 semester hours.

300. Medical Vocabulary

A course designed to familiarize students with common medical terms through the use of Latin and Greek word parts. Intended primarily for Pre-Medical, Pre-Veterinary and other Pre-Health curricula. Fall of even-numbered years. Credit, 2 semester hours.

301. Entomology

An introduction to the study of insects which emphasizes the classification, morphology, physiology, ecology, behavior, and importance of insects. Approximately one week will be devoted to spiders. A collection with identification is required. Three lectures and a two-hour laboratory weekly. Fall of even-numbered years. Credit, 4 semester hours.

304. Principles of Ecology

An analysis of the interactions of organisms with each other and the physical environment. Ecological process is examined at individual, community, and ecosystem levels. The basic kinds of ecosystems are surveyed. Three lectures and a three-hour laboratory weekly. Fall, Spring. Credit, 4 semester hours.

305. Introductory Mycology

An introduction to the fungi, with emphasis upon taxonomy and physiology, including some reference to their economic importance. Special emphasis will be given to those that are animal or plant pathogens. Fall of odd-numbered years. Two lectures and a two-hour laboratory period weekly. Credit, 3 semester hours.

310. Invertebrate Zoology

A survey of the major invertebrate phyla emphasizing classification, morphology, natural history, evolution, and behavior. At least one Saturday coastal field trip is required. Fall of odd-numbered years. Credit, 4 semester hours.

314. Special Topics in Biology

A course designed to meet the unusual needs of individuals in special programs such as the Science Institute for school teachers and those working toward certification. The specific contents and credit for the course will be determined by the needs of the students and is subject to departmental approval. As announced. Credit, 1-3 semester hours.

315. Microbiology

The biology of bacteria, fungi, algae, protozoa, and viruses, with special reference to bacteria. Microbial diseases, immunity and the role of microorganisms in human affairs are also emphasized. Three lectures and a two-hour laboratory weekly. Spring. Credit, 4 semester hours.

319. Animal Parasitology

An introduction to the biology of parasites emphasizing classification, morphology, life history, pathology, treatment, ecology and evolution. Three lectures and a two-hour laboratory weekly. Spring of even-numbered years. Credit, 4 semester hours.

340. Plant Taxonomy

An introduction to systematic botany with emphasis on identification of the local vascular flora. Spring of even-numbered years. Two lectures and two, two-hour laboratory periods weekly. Field trips as announced. Credit, 4 semester hours.

350. Ornithology

Classification and identification of birds life histories; feeding habits; nesting habits; theories of migration; economic importance. Spring of odd-numbered years. Two lectures and a two-hour laboratory period weekly. Credit, 3 semester hours.

354. Plant Physiology

A general study of the physiological activities in plants such as the fundamental principles, water relations, metabolism, plant growth hormones, as well as growth and development. Fall of even-numbered years. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

370. Science Communication and Research Methods

Prerequisite: Consent of Instructor

A review of the current literature in a variety of biomedical journals. The format for presentation of material and the research methods employed will be examined. Designed so that students can obtain an understanding of how research is done and how it is reported. Credit, 1 semester hour.

371. Cell Biology

Prerequisites: CHM 100, 101; 300, 301 recommended.

A study of cellular ultrastructure and physiology. Fall, Spring. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

372. Vertebrate Histology and Microtechnique

A course in the techniques of preparing tissues for microscopic examination. Slide preparation and tissue identification will be emphasized. Spring of even-numbered years. Two lectures and two, two-hour laboratory periods weekly. Credit, 4 semester hours.

380. Comparative Animal Nutrition

Elective

Prerequisites: CHM 210, 211 or 300, 301.

A study of the principles of nutrition including the classification of nutrients, the nutritional requirements of different species and the physiological role of various nutrients. Fall of odd-numbered years. Credit, 3 semester hours.

422. Evolution

Prerequisite: Consent of the Instructor.

An introduction to and analysis of the concepts of organic evolution, mutation, adaptation, selection, competition, and origin of species are considered. Fall. Three lectures weekly. Credit, 3 semester hours.

461. Animal Physiology

Prerequisites: CHM 300, 301; and BIO 371 recommended.

A study of physiological principles as they occur throughout the animal kingdom with special emphasis on mammals. A comprehensive study of the mechanisms involved in the maintenance of the homeostatic condition. Spring of even-numbered years. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

472. Principles of Genetics

Prerequisites: CHM 100, MAT 107.

An introduction to the basic principles of heredity and molecular genetics. General aspects of human genetics are included. Fall, Spring. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

495. Biomedical Seminar

Prerequisite: Consent of Instructor.

A seminar series in which current biomedical research projects are presented and discussed. Most seminars will be presented by visiting scientists recruited from research laboratories in industry and universities. Fall, Spring. Credit, 1 semester hour per semester with a limit of 4 hours.

499. Research in Biology

Restriction: Senior biology majors with a quality point average of 3.0 in the major.

Prerequisite: Consent of the instructor and approval of the research proposal by a committee composed of biology faculty.

Designed to provide the student with experience in the analysis and solution of problems in the areas of his major interests. The problems will be presented to the biology faculty in written form. Fall, Spring. Credit, 1 to 3 semester hours per semester with a limit of 6 hours.

BUSINESS ADMINISTRATION AND ECONOMICS*Chairman:* EDWARD L. POWERS

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JOHN PARNELL
CAROLYN ROBERTS
JOSEPH E. SANDLIN
DOUGLAS W. SCHELL
DAVID D. WILLIAMS

*Business Education Coordinator

The Bachelor of Science degree may be earned in Business Administration or Business Education, with administration majors concentrating in management, accounting, office administration, or applied science. The Business Education curriculum leads to North Carolina Teacher Certification (with Vocational Business Certification). The track in Office Administration is designed to prepare students for careers in office occupations and administrative work (e.g. administrative assistant, office manager, etc.). The basic core of business studies emphasizes the broad background needed for successful competition in the dynamic work-world as well as preparation for further study in graduate programs. In addition, the Department offers minors in Business Administration and in Economics.

A program leading to the Bachelor of Arts degree in Economics is also offered. It provides students with a background for employment in financial institutions, private businesses, and government as well as graduate study in business, law, or economics.

Another departmental objective is to render service beyond the University and within the surrounding business community. Through a degree program in management in the University's Continuing Education Division, the Department serves students who are unable to attend daytime classes. Further assistance is supplied in placement services and special consultation to the business community at large.

Prospective students are strongly urged to consult a member of the faculty as soon as possible. To follow the courses in the necessary order, it is best to begin planning early.

Requirements for a Bachelor of Science Degree in Business Administration with a Concentration in Management

	Sem.	Hrs.
Orientation Requirement	1	
Basic Studies Requirements*	50	
Major Requirements		
BUS 109, 227, 228, 303, 307, 308, 312, 313, 314, 315, 415, 441, 466		
ECN 201**, 202, 301		
MAT 107**, 118**	45	
Electives (at least 9 hours of 300 or 400 level business administration or economics courses)	32	
Total	128	

*Students who plan a Major in Business Administration with a Concentration in Management should consult the following recommended sequence prior to registering for Basic Studies courses.

**Apply toward Basic Studies.

Recommended Sequence of Courses

	Fall			Spring		
1st year	MAT	107	3 ^a	MAT	118	3 ^a
	CMA	105	3	ECN	201	3 ^a
	BUS	109	3	CMA	106	3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	Orientation		1			
			16 hrs.			15 hrs.
2nd year	ECN	202	3	BUS	228	3
	BUS	227	3	ECN	301	3
	BUS	313	3	BUS	314	3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	PEDElec.		1	PEDElec.		1
			16 hrs.			16 hrs.
3rd year	BUS	307	3	BUS	308	3
	BUS	312	3	BUS	315	3
	BUS/ECNElec.		3 ^b	Basic		3
	Basic Studies		3	BUS/ECNElec.		3 ^b
	Basic Studies		3	Gen. Elective		3
	Gen. Elec. or			Gen. Elec. or		
	BUS 303		2/3	BUS 303		2/3
			17-18 hrs.			17-18 hrs.

4th year	BUS	415	3	BUS	466	3
	Gen. Elec. or			Gen. Elec. or		
	BUS	441	3	BUS	441	3
	Gen. Elective		3	BUS/ECNElec.		3 ^b
	Gen. Elective		3	Gen. Elective		3
	Gen. Elective		3	Gen. Elective		3
			<hr/>			<hr/>
			15 hrs.			15 hrs.

^aFulfills requirements of both Basic Studies and Major.

^bBUS/ECN electives must be on 300 or 400 level.

Requirements for a Bachelor of Science Degree in Business Administration with a Concentration in Accounting

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
BUS 109, 227, 228, 303, 307, 308, 312, 313, 314, 315, 316, 321, 322, 415, 417, 421, 423, 441, 458, 466	
ECN 201**, 202, 301, 304, 411	
MAT 107**, 118**	72
Electives	5
	<hr/>
Total	128 hrs.

*Students who plan a Major in Business Administration with a Concentration in Accounting should consult the following recommended sequence prior to registering for Basic Studies courses.

**Apply toward Basic Studies

Recommended Sequence of Courses

		Fall			Spring	
1st year	MAT	107	3 ^a	MAT	118	3 ^a
	MUS	109	3	CMA	106	3
	CMA	105	3	ECN	202	3
	ECN	201	3 ^a	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	Orientation		1	PEDElec.		1
			<hr/>			<hr/>
			15 hrs.			16 hrs.
2nd year	BUS	227	3	BUS	228	3
	BUS	313	3	BUS	314	3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	PEDElec.		1	Basic Studies		3
			<hr/>			<hr/>
			16 hrs.			18 hrs.

3rd year	BUS	307	3	BUS	303	3
	BUS	321	3	ECN	304	3
	BUS	423	3	BUS	308	3
	ECN	301	3	BUS	312	3
	Basic Studies		3	BUS	322	3
			15 hrs.			
4th year	BUS	315	3	BUS	316	3
	BUS	415	3	BUS	417	3
	BUS	421	3	BUS	441	3
	BUS	466	3	BUS	458	3
	ECN	411	3	Gen. Elec. or		
	Gen. Elective		2	BUS	460	3 ^b
			17 hrs.			15 hrs.

^aFulfills requirements of both Basic Studies and Major

^bRecommended during senior year for students preparing for CPA exam.

Requirements for a Bachelor of Science Degree in Business Administration with a Concentration in Office Administration

Orientation Requirement	Sem. Hrs.
Basic Studies Requirements*	1
Major Requirements	50
BED 202, 203, 213, 214, 303, 313, 403, 453	
BUS 109, 209, 227, 228, 312, 315	
ECN 201**, 202	
CMA 209 (or CMA 241, 242, 243)	49
Electives (at least six hours must be taken from courses approved within the Business Dept.)	28
Total	128

*Students who plan a Major in Business Administration with a Concentration in Office Administration should consult the following recommended sequence prior to registering for Basic Studies courses.

**Applies toward Basic Studies.

Recommended Sequence of Courses							
Fall				Spring			
1st year	CMA	105	3	CMA	106	3	
	BUS	209	3	BUS	109	3	
	PEDElec.		1	BED	201	2 ^a	
	Orientation		1				
	Basic Studies		3	Basic Studies		3	
	Basic Studies		3	Basic Studies		3	
	Basic Studies		3	Basic Studies		3	
			17 hrs.				15-17 hrs.

a,b,c,d,e: see below.

Recommended Sequence of Courses

	Fall			Spring	
1st year	CMA 105	3	CMA 106	3	
	Orientation	1	BUS 109	3	
	BUS 209	3	Acad. Con.	3	
	Elective ^d	1	Basic Studies	3	
	Basic Studies	3	Basic Studies	3	
	Basic Studies	3	Basic Studies	3	
	Basic Studies	3			
		<hr/>			<hr/>
		17 hrs.			18 hrs.
2nd year	CMA Lit. ^b	3	CMA Lit. ^b	3	
	BUS 227	3	ECN 201 ^c	3	
	Acad. Con.	3	BUS 228	3	
	BED 202 ^a	2	Basic Studies	3	
	Basic Studies	3	BED 214 ^a	3	
	Basic Studies	3	EDN 227	3	
	Elective ^d	1			
		<hr/>			<hr/>
		18 hrs.			18 hrs.
3rd year	BED 303	3	Acad. Con.	3	
	Acad. Con.	3	BUS 315 or 316	3	
	EDN 202	3	BED 305	3	
	HST ^b	3	BED 450	3	
	Basic Studies	3	EDN 308	3	
	BED 203 ^a	2	BED 441	1	
	BED 440	1	EDN 437	1	
		<hr/>			<hr/>
		18 hrs.			17 hrs.
4th year	HST ^b	3	BED 400	3	
	Acad. Con.	3	EDN 445	3	
	Acad. Con.	3	EDN 448	6	
	BED 403	3			
	EDN 419	3			
	BED 460	3			
		<hr/>			<hr/>
		18 hrs.			12 hrs.

^aNot required of students who have already reached these levels of competency.

^bSee prescribed list of literature or history courses for Teacher Education.

^cFulfills requirements of both Basic Studies and Major.

^dNeeded only if BED 202, 203, 214 not taken.

^eSee concentrations offered by specific departments.

Requirements for a Bachelor of Arts Degree in Economics

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
ECN 201**, 202, 301, 313, 330, 401, and at least eighteen (18) additional semester hours of economics from the 300 level and above.	
MAT 107**, 108** (or equivalent), and 221	37
Electives	40
Total	128

*Students who plan a Major in Economics should consult the following recommended sequence prior to registering for Basic Studies courses.
**Apply toward Basic Studies.

Recommended Sequence of Courses

	Fall			Spring		
1st year	ECN	201	3 ^a	ECN	202	3
	MAT	107	3 ^a	MAT	108	3 ^a
	CMA	105	3	CMA	106	3
	Basic Studies		3	BUS	109	3 ^d
	Basic Studies		3	Basic Studies		3
	Orientation		1	PEDElec.		1
			16 hrs.			16 hrs.
2nd year	MAT	221	4	BUS	227	3 ^b
	ECN	301	3	ECNElec.		3 ^c
	ECN	313	3	PEDElec.		1
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
			16 hrs.	Basic Studies		3
						16 hrs.
3rd year	BUS	228	3 ^b	ECN	330	3
	BUS	307	3 ^b	BUS	312	3 ^b
	ECNElec.		3 ^c	ECNElec.		3 ^c
	ECN	401	3	ECNElec.		3 ^c
	Basic Studies		3	Basic Studies		3
	Basic Studies		3			
			18 hrs.			15 hrs.
4th year	ECNElec.		3 ^c	ECNElec.		3 ^c
	BUS	415	3 ^b	BUSElec.		3 ^b
	General Elec.		3	General Elec.		3
	General Elec.		3	BUSElec.		3
	General Elec.		3	General Elec.		3
	General Elec.		1			
			16 hrs.			15 hrs.

^aFulfills requirements of both Basic Studies and Major.
^bRequired if a minor in Business Administration is also taken.
³Economics electives must be on the 300 level or above.
^dRecommended, but not required.

Requirements for a Bachelor of Science Degree in Applied Science in Business Administration

This program is described on p. 48. Students who plan to pursue a graduate degree should consult the department chairman before undertaking this program.

Basic Studies Requirements ^b	Sem. Hrs.
Credit for degree of Associate in Applied Science (Business)	50
An individualized program of study based on 300 and 400 level courses in business administration and economics following the guidelines on page 168.	60
General electives	15
	3
Total	128

Recommended Sequence of Courses^b

	Fall		Spring	
1st year	CMA 105	3	CMA 106	3
	Basic Studies	3	Basic Studies	3
	Basic Studies	3	Basic Studies	3
	Basic Studies	3	Basic Studies	3
	BUS/ECNElec.	3 ^a	Basic Studies	3
	BUS/ECNElec.	3 ^a		
	<hr/> 15 hrs.		<hr/> 18 hrs.	
2nd year	Basic Studies	3	Basic Studies	3
	Basic Studies	3	Basic Studies	3
	Basic Studies	3	PED Elec.	1
	Basic Studies	3	PED Elec.	1
	Basic Studies	3	BUS/ECNElec.	3 ^a
	BUS/ECNElec.	3 ^a	BUS/ECNElec.	3 ^a
	<hr/> 18 hrs.		<hr/> General Elec. 3	
	18 hrs.		17 hrs.	

^aBUS/ECN electives must be on 300 or 400 level.
^bEquivalent courses already taken in the Basic Studies program at a community college should not be repeated. However, an equivalent number of hours in other related courses must be taken at Pembroke State University with permission of the chairman of the department.

Requirements for a Minor in Business Administration

The Minor in Business Administration is designed to provide an opportunity for students to develop an understanding and appreciation of business as part of a liberal arts education.

Required Courses			Sem. Hrs.
BUS	227	Principles of Accounting I	3 hrs.
BUS	228	Principles of Accounting II	3 hrs.
BUS	307	Principles of Management	3 hrs.
BUS	312	Marketing Management	3 hrs.
BUS	415	Financial Management	3 hrs.
ECN	201	Principles of Economics I	3 hrs.
			<hr/> 18 hrs.*

Requirements for a Minor in Economics

The Minor in Economics is designed to provide an opportunity for students to develop an overview and appreciation of economics as part of a liberal arts education.

Required Courses			Sem. Hrs.
ECN	201	Principles of Economics I	3 hrs.
ECN	202	Principles of Economics II	3 hrs.
ECN	301	Intermediate Micro-Economic Theory	3 hrs.
Economics Electives on the 300/400 level			<hr/> 9-12 hrs.
			18 hrs.*

*Only 6 hours of the total number can also be used for Basic Studies, a major, or another minor.

COURSES

BUSINESS ADMINISTRATION (BUS)

109. Business Uses of the Computer

An introduction to the uses of microcomputers in business. Topics to be covered include an introduction to DOS, word processing, business software applications, and spreadsheet analysis. Fall, Spring. Credit, 3 semester hours.

209. Introduction to Business

A survey and operation analysis of business administration and organization. Consideration is given to such topics as legal forms of business, management, marketing, risk, accounting, statistics, and governmental regulations. A general course designed to all students. Fall. Credit, 3 semester hours.

227. Principles of Accounting I (Financial Accounting)

Introduction to accounting. The study of the basic accounting equation, transaction analysis and financial statements. Fall, Spring. Credit, 3 semester hours.

228. Principles of Accounting II (Managerial Accounting)

Prerequisite: BUS 227.

An introductory study of internal accounting with emphasis on cost analysis and budgeting. The course stresses the attention-directing and problem-solving function of accounting in relation to current planning and control, evaluation of performance, special decisions, and long-range planning. Fall, Spring. Credit, 3 semester hours.

303. Business Communications (BED 303, CMA 303)

Development of skill in the fundamentals of effective communication and detailed study of principles and application of business letters and business writings, including business reports and other forms of business communication. Fall, Spring. Credit, 3 semester hours.

307. Principles of Management

Introduction to the classical, behavioral, and management science philosophies of management. Emphasis upon planning, organizing, motivating, and controlling. Practical application of theories and mathematical models. Fall, Spring. Credit, 3 semester hours.

308. Organizational Theory and Behavior

Prerequisite: BUS 307.

Study of the formal and informal processes that take place within organizational entities. Course includes the study of bureaucracy, organizational effectiveness, organizational climate, communication structure, and the role of the individual. Fall, Spring. Credit, 3 semester hours.

312. Principles of Marketing

Prerequisite: ECN 201.

Basic principles of marketing. Emphasis is placed on consumer's role in marketing and on the marketing environment. The basic product, place, price, and promotion decisions are examined. Fall, Spring. Credit, 3 semester hours.

313. Business Statistics I (ECN 313)

A study of descriptive statistics including functional and summation notation, describing data graphically and numerically, probability theory, and probability distributions. Fall. Credit, 3 semester hours.

314. Business Statistics II (ECN 314)

Prerequisite: BUS 313.

A study of statistical inference including probability theory, random variables and probability distributions, testing, hypotheses, estimating unknown parameters, analysis of variance, and linear and multiple regression. Spring. Credit, 3 semester hours.

315. Business Law I

The legal environment of business, contracts, personal property, commercial transactions and business organizations. Fall, Spring. Credit, 3 semester hours.

316. Business Law II

Study of commercial papers, creditors' rights, real property, government regulation, insurance, and fiduciary relationships. Fall or Spring. Credit, 3 semester hours.

321. Intermediate Accounting I

Prerequisite: BUS 228.

A review of financial accounting procedures, and a detailed study of selected sections of the balance sheet and income statement. Consideration is given to the procedures required for proper financial statement presentation as prescribed by the AICPA and FASB. Fall. Credit, 3 semester hours.

322. Intermediate Accounting II

Prerequisite: BUS 321.

Continuation of BUS 321 covering liabilities and capital accounts, the funds flow statements, statement analysis, error correction, and price level adjusted statements. Spring. Credit, 3 semester hours.

334. Introduction to Computer Programming - COBOL (CSC 201)

Prerequisite: CSC 100 or permission of instructor.

A first course in programming. Introductory concepts of structured programming and algorithmic analysis with emphasis on data processing applications.

403. Office Management (BED 403)

Designed for training students to meet situations which will confront them in the modern business office: office standards, office control, physical facilities, general nature of office work, office personnel, modern labor organizations, wage determination, collective bargaining, public regulations. Spring. Credit, 3 semester hours.

408. Personnel Management

Prerequisite: BUS 307.

Study of personnel recruitment, selection, testing, management development, performance evaluation, wage and salary administration, employee benefits, and other areas of major concern to personnel managers and staff. Fall. Credit, 3 semester hours.

410. Small Business Management

Prerequisites: BUS 307, 312.

Consideration of opportunities and obstacles of starting and operating a small business. Emphasis will be on integrating all managerial requirements (financial, marketing, operational, legal, logistical, accounting, and behavioral) of owning and operating a small business. Study of the opportunities and assistance provided by franchises, federal, and local agencies. Fall. Credit, 3 semester hours.

412. Marketing Policy and Decisions

Prerequisites: BUS 307, 312; MAT 118.

Study of selected marketing topics including product differentiation, market segmentation, market research, and consumer behavior. Considers effect of the marketing mix and the development of total marketing strategy. As announced. Credit, 3 semester hours.

415. Financial Management

Prerequisites: BUS 228, 313.

The basic principles of financial management as they apply to various forms of business organization: financial planning and control, short and intermediate-term credit, sources of capital, and expansion and growth. Fall, Spring. Credit, 3 semester hours.

417. Income Tax Accounting

Prerequisite: BUS 228.

A comprehensive study of the federal income tax laws. Emphasis is given to application of the law for individuals. Spring. Credit, 3 semester hours.

418. Investment Analysis and Portfolio Management

Prerequisite: BUS 415.

Corporate and other securities as investments, the organization of the capital market, and the analysis and evaluation of securities and portfolios. As announced. Credit, 3 semester hours.

421. Advanced Accounting

Prerequisite: BUS 332.

Mergers and acquisitions accounting as well as preparation of consolidated statements after acquisition. Special accounting problems in consolidated financial statements, partnerships, pension funds, fund accounting, and fiduciary accounting. Fall. Credit, 3 semester hours.

423. Cost Accounting

Prerequisite: BUS 228.

Cost determination and analysis, cost control, and cost-based decision-making. Included are such topics as direct and indirect cost, application of burden, and responsibility accounting. Fall. Credit, 3 semester hours.

437. Experiential Learning I

Prerequisite: Consent of the Department Chairperson.

An innovative or significantly contributory project done outside the classroom, under academic and vocational supervision, for a business operation. (40 work hours per s.h.) Fall or Spring. Credit, 1-3 semester hours. Pass/Fail.

428. Experiential Learning II

Prerequisites: BUS 437, Consent of Department Chairperson

An innovative or significantly contributory project done outside the classroom under academic and vocational supervision, for a business operation. (40 work hours per s.c.h.) Fall or Spring. Credit, 1-3 semester hours. Pass/Fail.

441. Production Management

Prerequisites: BUS 307, 313.

Operations management is presented through a study of production functions. Analytical techniques are applied to production problems. Fall, Spring. Credit, 3 semester hours.

458. Auditing

Prerequisite: BUS 322.

The theory and application of generally accepted auditing standards used in the examination of financial statements are the areas of primary concern. The role of internal control review, working papers, audit programs, and the auditor's liability are considered along with selected case studies. Spring. Credit, 3 semester hours.

460. Senior Seminar in Accounting

Prerequisite: Consent of Instructor.

A seminar designed to pursue specific topics in the field of accounting. Spring. Credit, 3 semester hours. Pass/Fail.

465. Quantitative Business Analysis

Prerequisites: BUS 307, 313, 314.

An introduction to basic mathematical concepts and their application to decision models in management situations. Topics including linear programming, PERT-CPM, optimization, queuing theory, transportation modeling, regression, and correlation. As announced. Credit, 3 semester hours.

466. Business Policy

Prerequisites: BUS 307, 312, 415.

Decision-making and analysis of complex business problems. Integrates knowledge from all functional areas of business and economics including managerial economics, management science, marketing, finance, accounting, production, and research and development. Fall, Spring. Credit, 3 semester hours.

496. Management Internship I

Prerequisite: Permission of the Chairperson; Accounting, Management, or Office Administration majors only.

A work experience in an operating business where the student, under academic and vocational supervision, participates in actual managerial functions. (Work time is 40 hours per s.h.) Fall, Spring. Credit, 3 semester hours. Pass/Fail.

497. Management Internship II

Prerequisites: Permission of the Chairperson; BUS 496; Accounting, Management or Office Administration majors only.

A work experience in an operating business where the student, under academic and vocational supervision, participates in actual managerial functions. (Work time is 40 hours per s.h.) Fall, Spring. Credit, 3 semester hours. Pass/Fail.

499. Senior Seminar in Management

Prerequisites: Consent of Instructor.

Designed to pursue specific topics in the field of management, and to prepare senior students for graduate work in management. As announced. Credit, 3 semester hours.

BUSINESS EDUCATION (BED)**201. Beginning Typewriting**

The development of fundamental skills of typewriting including: the touch system of typing with a mastery of the keyboard, the ability to accurately type business and personal letters, reports, and tabulation problems, and the ability to apply correct English usage to typewritten materials. Fall, Spring. Credit, 2 semester hours.

202. Intermediate Typewriting

Prerequisite: BED 201.

Further emphasis on basic typewriting skills. The development of skills in the areas of duplicating, preparation of office forms, business letters, manuscripts, compositions, and other forms of business correspondence. Fall. Credit, 2 semester hours.

203. Advanced Typewriting

Prerequisite: BED 202.

Emphasis on sustained production of various kinds of typewriting problems encountered in the modern business office. Spring. Credit, 2 semester hours.

213. Beginning Shorthand I

Fundamental principles of Gregg shorthand with special emphasis on accuracy and speed. Practice work in dictation and transcription. Ability to take dictation at 80 words a minute and to transcribe easily and accurately. Three lectures and two laboratories weekly. Fall. Credit, 3 semester hours.

214. Beginning Shorthand II

Prerequisite: BED 213.

This course is designed to develop the student's ability to construct outlines for unfamiliar words under the stress of dictation; to extend the students' knowledge of the basic nonshorthand elements of transcription; to give the students a solid foundation for rapid and accurate transcription; to develop the ability to take dictation at the rate of 80-90 words per minute. Three lectures and two laboratories weekly. Spring. Credit, 3 semester hours.

303. Business Communications (BUS 303, CMA 303)

Development of skill in the fundamentals of effective communication and detailed study of principles and application of business letters and business writings, including business reports and other forms of business communication. Three lectures weekly. Fall, Spring. Credit, 3 semester hours.

305. Business Machines

Prerequisite: BED 201.

Development of vocational proficiency on the following machines: Electronic calculator (students develop skills in operating machine and competency in business math covering the following areas: percents, interests, discounts, merchandising calculations, payroll records, annuities, stocks and bonds, and consumer credit), dictation and transcription equipment, stencil fluid duplicators, word processors and micro-processors. Spring. Credit, 3 semester hours.

313. Advanced Shorthand

Prerequisite: BED 214.

A second-year course in shorthand, consisting of rapid dictation and rapid transcription. Mastery of principles of Gregg shorthand. Ability to take dictation at a rate of 100 or 120 words a minute. Three lectures and two laboratories weekly. Fall. Credit, 3 semester hours.

400. Methods of Teaching Business Education

Purposes, methods, materials, techniques, and evaluation procedures in business education. Preparation of teaching plans and materials. Fall or Spring. Credit, 3 semester hours.

403. Office Management (BUS 403)

Designed for training students to meet situations which will confront them in the modern business office: office standards, office control, physical facilities, general nature of office work, office personnel, modern labor organizations, wage determination, collective bargaining, public regulations. Fall or Spring. Credit, 3 semester hours.

440. Secretarial Internship I

Prerequisites: BED 203, 313.

Supervised work experience in cooperating business offices, whereby student develops and refines occupational competencies. One semester hour is granted for 125 hours of on-the-job work. Fall, Spring. Credit, 1 semester hour.

441. Secretarial Internship II

Prerequisites: BED 203, 313.

Supervised work experience in cooperating business offices, whereby student develops and refines occupational competencies. One semester hour is granted for 125 hours of on-the-job work. Fall, Spring. Credit, 1 semester hour.

450. Principles and Problems of Business Education

Aims and objectives of business education. Evaluation of various business curricula in relation to modern education philosophy, trends and problems in business education, and findings in research in business education. Three lectures weekly. Fall or Spring. Credit, 3 semester hours.

453. Secretarial Office Practice

A terminal course designed to consolidate office attitudes, knowledge, skills, and procedures which are necessary to function efficiently in today's business office. This course includes instruction in filing, the use of business forms, the use of the newest, essential office machines, and the development of decision-making skills. Fall or Spring. Credit, 3 semester hours.

460. Administration and Supervision of Business & Office Education

Study of the leadership functions in business and office education at the federal, state, and local levels; planning and organizing Business and Office Education Programs at the secondary school; procedures for organizing youth organizations; and coordinating co-operative business education programs. Fall or Spring. Credit, 3 semester hours.

ECONOMICS (ECN)**201. Principles of Economics I**

This course provides an overall picture of the operation of our economy. The following topics are emphasized: introduction to American capitalism, national income, level of employment, fiscal policy, monetary policy, and economic growth. Fall, Spring. Credit, 3 semester hours.

202. Principles of Economics II

This second part of the principles course in economics concentrates on the determination of prices in competitive and monopolistic markets, the distribution of income along functional lines, and international economic systems. Fall, Spring. Credit, 3 semester hours.

206. Economic Geography (GGY 206)

Location, development and distribution of major industries, agricultural products, and economic services. Fall, Spring. Credit, 3 semester hours.

301. Intermediate Micro-Economic Theory

Prerequisites: ECN 201, 202.

Price determination, income distribution, and resource allocation in a market economy. Fall, Spring. Credit, 3 semester hours.

304. Money and Banking

Prerequisites: ECN 201, 202.

A study of financial institutions and their role in the economy, and an analysis of the functions of money and credit. Fall or Spring. Credit, 3 semester hours.

313. Statistics I (BUS 313)

A study of descriptive statistics including functional and summation notation, describing data graphically and numerically, probability theory, and probability distributions. Fall. Credit, 3 semester hours.

314. Statistics II (BUS 314)

Prerequisite: BUS 313.

A study of statistical inference including probability theory, random variables and probability distributions, testing hypotheses, estimating unknown parameters, analysis of variance, and linear and multiple regression. Spring. Credit, 3 semester hours.

330. Public Finance (PLS 331)

Prerequisites: ECN 201, 202.

A study of revenue and expenditures on all governmental levels in the United States. As announced. Credit, 3 semester hours.

340. International Trade

Prerequisites: ECN 201, 202, 304.

An introduction to international trade, the balance of payments, and related issues of foreign economic policy. As announced. Credit, 3 semester hours.

341. Economic History of the United States (HST 341)

Prerequisites: HST 201 or permission of instructor.

A thematic study of the economy of the United States from colonization to the present. Spring. Credit, 3 semester hours.

401. Intermediate Macro-Economic Theory

Prerequisites: ECN 201, 202.

Determination of the national income and its components. Economic growth and fluctuations. The influence of public policy on the production and employment level and on the distribution of the national income. As announced. Credit, 3 semester hours.

406. Economic Systems

Prerequisites: ECN 201, 202.

A comparative study of alternative economic systems, including communism, socialism, fascism, and capitalism. As announced. Credit, 3 semester hours.

407. Economics of Labor

Prerequisite: ECN 201, 202.

Examines the nature of the labor markets and problems dealing with labor groups. Topics include history of the labor movement, union structure, labor law, collective bargaining. As announced. Credit, 3 semester hours.

411. Development of Economic Thought

Prerequisites: ECN 201, 202.

A basic course in the development of economic theories and doctrines, ranging from the Greek to the present day. Fall. Credit, 3 semester hours.

419. Senior Seminar in Economics

Prerequisite: Consent of instructor.

A seminar featured to prepare students for graduate work in economics. As announced. Credit, 3 semester hours.

COMMUNICATIVE ARTS

Chairman: THOMAS J. LEACH

RANDY BARKER
NANCY W. BARRINEAU
WILLIAM BIDDLE
ROBERT BRITTON
MONIKA BROWN
REBECCA BRYSON
MAXWELL COURSON
CHESTER I. JORDAN
ANNE LOCKWOOD*
JOSEF L. MANDEL
CHARLES B. MOORE
C. DOUGLAS NORMAN

SARA OSWALD
OSCAR PATTERSON, III
ROBERT W. REISING
RAYMOND J. RUNDUS
DENNIS H. SIGMON +
SHELBY D. STEPHENSON
SANDRA M. STRATIL*
PATRICIA D. VALENTI***
RICHARD R. VELA**
ANN F. WELLS
RUDY D. WILLIAMS + +

*College Opportunity Program

**Director of Composition

***On Leave

+ English Education Coordinator

+ + Graduate English Education
Coordinator

The Communicative Arts Department of Pembroke State University exists for the common good of its students, of the campus community, and of a rational and humane society. To serve these purposes, the Department attempts to offer distinctive, realistically conceived, and well-executed programs for (1) the Basic Studies student, to whom a wide choice of courses is available; (2) the Communicative Arts Major in four areas; (3) the Foreign Language student (French, Spanish, and German); (4) the student seeking North Carolina Teacher Certification in English; (5) the student majoring in another subject area who wishes to develop a minor in the Communicative Arts Department or simply to choose an elective or two; and (6) the in-service teacher seeking post-graduate work in English Education; see the Graduate Program Section of this catalog for a description of the M.A. Ed. (English Education) program and individual courses. The Department recognizes that each program has a different philosophy and different objectives and seeks to make the student responsive to the philosophy and objectives of the student's particular program.

Information is available in the Department office about advisement and screening procedures for Communicative Arts majors. Also available is information about developing minors in French, Journalism, Language, Literature, Public Relations Communications, Speech, Theatre, and Writing. These are offered to Communicative Arts majors as well as to students majoring in other areas.

Pembroke Magazine, housed in the Department of Communicative Arts and founded in 1969 by the late Norman Macleod while at Pembroke State University,

focuses on North Carolina national, and international writers. It publishes both beginning and established writers.

The University operates WPSU-TV, a public television facility. All students majoring in broadcasting are expected to work at the facility or possibly serve an internship there. The station is operated completely by students under the direction of the Director of Telecommunications. Not limited to Broadcasting students, positions at the station are available to all qualified students.

The Communicative Arts Department recommends that all of its majors study a foreign language throughout their college careers; six semester hours are required.

CMA 105 (Composition I) and CMA 106 (Composition II) are prerequisite to all 200-level “core” courses and all required major courses except for CMA 250 (Introduction to Theatre).

All full-time students must enroll in Composition I during their first semester of full-time study and continue consecutively thereafter until they successfully complete both CMA 105 and CMA 106, the six-hour required sequence.

ENGLISH EDUCATION

The English Education program helps prospective teachers develop a personal philosophy of teaching as it attempts to help them become effective teachers of writing, reading, speaking, listening, and viewing. It hopes to explain the futility of teaching any facet of English in isolation and to inspire prospective teachers to be creative, original, willing, positive, untiring and resilient.

Five courses required for certification constitute the core of the program: 376 or 379, 382 or 383 (for Elementary and Middle Grades Certification); 379 and 384 (for Secondary English Certification). While up to four semester hours of experiential-learning credit may be earned in EED 399 (Practicum in Composition Tutoring), three semester hours in “practicum” courses are required, chosen from tutoring, play production, year book production, and newspaper production.

A Master’s degree is also available in English Education from Pembroke State University: see **Graduate Program** section.

**Requirements for a Bachelor of Arts Degree in Communicative Arts:
English Education Major (Teacher Certification)**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
“Core” Major Courses: CMA 100 or 101 and six semester hours of the same foreign language	9
Required Upper-Division Major Courses: CMA 205, 206, 221, 246, 302, 346, 370, 371, 457, and 465 or 466, EED 379 and 384	36
Three hours chosen from CMA 162-163; 262-263; 362-363; 462-463; 164, 165, 234, 235; 182-184; 282-284; and EED 399	3
Professional Education Requirements: EDN 202, 227, 308, 419, 430, 445, 448; EED 400	25
Electives	4
Total	128

*Students who plan a major in English Education should consult with the Coordinator of Undergraduate English Education in the Department of Communicative Arts prior to registering for Basic Studies courses. Students must meet all requirements for Teacher Education programs (See p. 78).

LITERATURE

Requirements for a Bachelor of Arts Degree in Communicative Arts:
Literature Major

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Core Courses	
CMA 100-Interpersonal Communication	
or	
CMA 101-Fundamentals of Speech	
CMA 205 & CMA 206-World Literature I, II	
Six hours of Foreign Language	15
Major Courses	
CMA 221-Major American Authors	
CMA 246-Major British Authors	
CMA 302-Literary Analysis and Interpretation	
CMA 457-Shakespeare	
CMA 465 or 466-Seminar in Literature	15
Nine semester hours from the following:	
CMA 342-British Novel	
CMA 343-American Novel	
CMA 354-Modern Drama	
CMA 366-Modern Poetry	9
Elective Courses	
Six semester hours from the following:	
CMA 277-Creative Writing I	
CMA 346-Aspects of the English Language	
CMA 370-Advanced Composition	
CMA 371-Modern English Grammar	
CMA 381-The English Language in American Society	
PSY 422-Seminar in Psycholinguistics	6
Electives	32
Total	128

*Students who plan a major in Literature should consult with the Department Chairman prior to registering for Basic Studies Courses.

THEATRE ARTS

**Requirements for Bachelor of Arts Degree in Communicative Arts:
Theatre Arts Major**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirement*	50
Major Requirements	
"Core" Major Courses: CMA 100 or 101; CMA 354 and 457; six semester hours of foreign language	15
CMA 201, Elementary Acting	
CMA 233, Stagecraft	
CMA 250, Introduction to Theatre;	
CMA 353, Theater Management;	
CMA 360, History of the Theatre: the Beginning to 1642;	
CMA 361, History of the Theatre: 1642 to the Present: and	
CMA 162, 163, 262 - Play Production	21
Twelve hours of major courses from the following: CMA 263-463, 164, 165, 234, 235, 301, 304, 315, 322, 323, 331, 333, 334, 401, 453, 454	12
Electives	29
Total	128

**CONTRACTED MAJORS: MASS COMMUNICATIONS,
ARTS MANAGEMENT, AND OTHERS**

The Department of Communicative Arts offers several special contracted majors. Mass Communications at Pembroke State University covers the areas of Broadcasting, Journalism, and Public Relations. The program is part of the Contracted Degree Major in the Department of Communicative Arts. Students who elect to participate in this program receive contracted academic courses in the specific field selected—Broadcasting, Journalism, or Public Relations Communications—as well as the opportunity to become involved with WPSU-TV, the University's public affairs television station, or The Pine Needle, the campus newspaper.

Students enrolled in the Mass Communication program take 15 hours of "core" major courses, including Speech Communication and Foreign Language. Courses in the specific area—Broadcasting Journalism, or Public Relations—require an additional 36 semester hours. Broadcasting and Public Relations students are expected to complete a professional internship as part of their program of study.

Other Contracted Majors are available, including Arts Management and individually designed majors. For more information, consult the Chairman of the Department of Communicative Arts. A major in Theatre Education is awaiting approval from the North Carolina State Department of Public Instruction.

**Requirements for a Bachelor of Arts Degrees in Communicative Arts:
Contracted Major (Broadcasting, Journalism, Public Relations Communication,
Arts Management, etc.)**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
“Core” Major Courses: CMA 100 or 101; and six semester hours of 200-level literature; six semester hours of foreign language	15
Approval of Contract	
Thirty-three semester hours of “Contracted” major courses (see Department publications for specific requirements in certain of the contracted majors)	33
CMA 455, Directed Studies Seminar	3
Electives	26
Total	128

*Students who plan a major in one of the “Contracted” majors should consult with the Department Chairman prior to registering for Basic Studies courses.

Academic Concentration in Communicative Arts

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Department of Communicative Arts offers an Academic Concentration of 24 hours. This Academic Concentration is available to other students, regardless of major.

1. “Core” Courses9 hours
- a. a speech course (3 hours): choose one
- CMA 100 - Interpersonal Communication
- CMA 101 - Fundamentals of Speech
- b. a 200-level Basic Studies literature course (3 hours): choose one
- CMA 203 - Introduction to Literature,
- CMA 205 - World Literature I,
- CMA 206 - World Literature II
- c. a 200-level “major authors” course (3 hours): choose one
- CMA 221 - Major American Authors
- CMA 246 - Major British Authors
2. a 200-level literature elective (any course not taken under 1)3 hours
- (for approved electives see advisor or Communicative Arts Department)
3. a 300-level language course: choose one3 hours
- CMA 346 - Aspects of the English Language
- CMA 371 - English Grammar
- CMA 381 - The English Language in American Society
4. a 200/300-level writing course: choose one3 hours
- CMA 240 - Newswriting and Reporting I
- CMA 277 - Creative Writing I
- CMA 305 - Feature Writing
- CMA 309 - Editorial Writing
- CMA 370 - Advanced Composition

- 5. a 300/400 level literature course: choose one3 hours
 - CMA 342 The British Novel
 - CMA 343 The American Novel
 - CMA 354 Modern Drama
 - CMA 366 - Modern Poetry
 - CMA 457 - Shakespeare
 - CMA 465, 466 - Seminar in Literature
- 6. a 300/400 level elective (any course not taken under 3, 4, 5)3 hours
(for approved electives see advisor or Communicative Arts Department)
- TOTAL 24 hours

Requirements for Middle Grades Language Arts Certification

- 1. CMA 205 World Literature I or CMA 206 World Literature II
- 2. CMA 221 Major American Authors
- 3. CMA 246 Major British Authors
- 4. *EED 379 The Teaching of Writing and Speech (6-12)
- 5. *EED 384 Literature for Adolescents (6-12)
- 6. *EDN 425 Classroom Diagnosis of Reading Difficulties
- 7. CMA 371 English Grammar
- 8. CMA 100 Interpersonal Communication or CMA 101 Fundamentals of Speech
- 9. CMA 346 Aspects of the English Language
- 10. one 300- or 400-level literature course from the following:
 - CMA 302 Literary Analysis and Interpretation
 - CMA 342 The British Novel
 - CMA 343 The American Novel
 - CMA 354 Modern Drama
 - CMA 366 Modern Poetry
 - CMA 457 Shakespeare
 - CMA 465 or 466 Seminar in Literature

*Courses that are not already included in the Communicative Arts Concentration.

Students planning to major in Middle Grades Education (6-9), with a Language Arts Concentration, should consult with the Coordinator of Undergraduate English Education in the Department of Communicative Arts. Checksheets for the program can be obtained from the department secretary.

MINOR PROGRAMS

Each Communicative Arts Minor consists of 18 hours selected from courses listed under the Minor Program. Six of these hours may be “duplicated”—see Department Chair for information.

Options for a Minor in French

132	Elementary French
231, 232	Intermediate French
255, 256	French Conversation and Composition
321, 322	Survey of French Literature
361	French Civilization and Culture
451	Study Abroad: Study Tour of France

Options for a Minor in Language

100	Interpersonal Communication
101	Fundamentals of Speech
212	Vocabulary Building
242	English Usage
243	Sentence Mastery
315	Voice and Diction
346	Aspects of the English Language
370	Advanced Composition
371	English Grammar
381	The English Language in American Society
420	Issues in Contemporary American English
455	Directed Studies Seminar
CSC 100	*Introduction to Computer Science
CSC 200	*Introduction to Computer Programming—FORTRAN
CSC 201	*Introduction to Computer Programming—COBOL
PSY 422	Seminar on Psycholinguistics: Psychology of Language
3-6 hours of French or Spanish	
*3-6 hours of Computer Science allowed.	

Options for a Minor in Journalism

*6 hours of Journalism courses from:

240	Newswriting and Reporting I
350	Feature Writing
309	Editorial Writing
340	Newswriting and Reporting II
390	Community Journalism

12 hours selected from:

209	Public Relations
210	Introduction to Mass Communications
211	Spelling
212	Vocabulary Building
242	English Usage
243	Sentence Mastery
244	Punctuation
277	Creative Writing I
306	News Editing and Typography
308	Literary Journalism
313	Broadcast Copywriting
370	Advanced Composition
381	The English Language in American Society
ART 107	Photography

Options for a Minor in Literature

203	Introduction to Literature
204	Mythology of All Peoples
205	World Literature I
206	World Literature II
207	Studies in Literature
220	American Indian Literature
221	Major American Authors
246	Major British Authors
302	Literary Analysis and Interpretation
342	The British Novel
343	The American Novel
354	Modern Drama
366	Modern Poetry
450	Seminar in American Indian Literature
457	Shakespeare
465, 466	Senior Seminar in Literature
FRH 321, 322	Survey of French Literature

At least six of the twelve unduplicated hours must come from 300- or 400-level courses.

Options for a Minor in Public Relations Communication

100 or	Interpersonal Communication
101	Fundamentals of Speech

209	Public Relations	243	Sentence Mastery
210	Introduction to Mass Communications	244	Punctuation
214	Photography in Public Relations	277	Creative Writing I
240	Newswriting and Reporting I	302	Literary Analysis and Interpretation
305	Feature Writing	346	Aspects of the English Language
316	Television Production	370	Advanced Composition
350	Organizational Communications	377	Creative Writing II
407	Public Relations Media	426	Creative Writing Workshop
409	Advanced Public Relations Communication	455	Directed Studies Seminar
		EED 379	The Teaching of Writing and Speech (6-9, 9-12)

Options for a Minor in Spanish

132	Elementary Spanish	240	3 hours of Journalism from Newswriting and Reporting I
231, 232	Intermediate Spanish	305	Feature Writing
255	Conversation & Composition	309	Editorial Writing
321, 322	Survey of Literature of Latin America I, II	340	Newswriting and Reporting II

331, 332	Survey of Literature of Spain I, II
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361	Civilization and Culture of Latin America
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362	Civilization and Culture of Spain
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Options for a Minor in Speech

100	Interpersonal Communication
101	Fundamentals of Speech
201	Elementary Acting
209	Public Relations
213	Pronunciation
315	Voice and Diction
316	Television Production
358	Discussion and Debate

Options for a Minor in Writing

211	Spelling
212	Vocabulary Building
242	English Usage

Options for a Minor in Theatre

162-463	*Play Production
164	**Stage Make-up
165	**Costumes for the Actors
201	Elementary Acting
233	Stagecraft
234	**Scene Design
235	**Stage Management
250	Introduction to the Theater
301	Advanced Acting
315	Voice and Diction
322, 323	Special Topics in Theatre
331	Play Direction
333	Lighting
353	Theatre Management
360, 361	History of the Theatre
401	Advanced Acting II
	Participation in at least two University Theatre Productions is required
	*One hour credit—up to four hours allowed.
	**One hour credit—Half semester course.

**COURSES
COMMUNICATIVE ARTS**

BASIC COMMUNICATION SKILLS (CMA)

100. Interpersonal Communication

Interpersonal communication behaviors that influence interpersonal relationships. Emphasis on developing personal skills and attitudes in one-to-one relationships and small groups. Fall, Spring, Summer. Credit, 3 semester hours.

101. Fundamentals of Speech

Introduction to the fundamentals of public speaking for the beginning student. Based on classical theory and practice. Fall, Spring, Summer. Credit, 3 semester hours.

104. Written Communication Skills

Required for students who do not pass the freshman writing sample and all students entering the College Opportunity Program.

Study and practice of basic elements of the writing process with special emphasis on prewriting techniques and editing for correctness; extensive practice in short forms including sentences, paragraphs and short essays. Pass/Fail grading. Fall, Spring Summer. Credit, 3 semester hours (will not count toward graduation requirements).

105. Composition I

Prerequisite: Passing grade on the freshman writing sample or passing grade in CMA 104.

Practice in prewriting, organizing, drafting, revising, and editing; emphasis on personal and informative writing using various strategies appropriate to college assignments. A 750-1000 word informative paper using written sources will be required. Fall, Spring Summer. Credit, 3 semester hours.

106. Composition II

Prerequisite: "C" grade or better in CMA 105.

Practice in critical reading in the disciplines; research skills using various writing strategies, with and emphasis on analysis and argumentation. A 1500-2000 word argumentative/persuasive research paper will be required. Fall, Spring, Summer. Credit, 3 semester hours.

211. Spelling

Prerequisite: "C" grade or better in both CMA 105 and 106.

A review of major spelling rules in English, with special attention to particular words that often give difficulty. Attention to techniques to aid memorization of particular problem words. Fall. Credit, 1 semester hour.

212. Vocabulary Building

Prerequisite: "C" grade or better in both CMA 105 and 106.

A study of methods of vocabulary enrichment (such as association by sound, appearance, meaning, and knowledge of common root, prefix, and suffix meanings). Specific words will be studied. Fall. Credit, 1 semester hour.

213. Pronunciation

Prerequisite: "C" grade or better in both CMA 105 and 106.

An intensive course to improve students' competence and confidence in oral use of language. Word attack skills and specific problem words included. Fall. Credit, 1 semester hour.

242. English Usage

Prerequisite: "C" grade or better in both CMA 105 and 106.

Intensive review of parts of speech and their use in the sentence. Study of punctuation forms. Analysis of verb problems and errors that obscure meaning or distract readers. Spring. Credit, 1 semester hour.

243. Sentence Mastery

Prerequisite: "C" grade or better in both CMA 105 and 106.

Practice in imitating various sentence structures to add variety and impact to writing. Spring. Credit, 1 semester hour.

244. Punctuation

Prerequisite: "C" grade or better in both CMA 105 and 106.

Study of specific punctuation rules and their application, with particular emphasis on commas, semicolons, and apostrophes. Spring. Credit, 1 semester hour.

303. Business Communications (BUS 303)

Development of skill in the fundamentals of effective communication and detailed study of principles and application of business letters and business writing, including business reports and other forms of business communication. Fall, Spring. Credit, 3 semester hours.

BRITISH AND AMERICAN LITERATURE (CMA)**220. American Indian Literature (AIS 220)**

Prerequisites: CMA 105, 106.

An introduction to American Indian literature. Texts written, collected or edited by American Indians will be used whenever possible. As announced. Credit, 3 semester hours.

221. Major American Authors

Prerequisites: 105, 106.

An overview of major trends and movements through a reading of works by such significant writers as Poe, Hawthorne, Melville, Emerson and/or Thoreau, Whitman, Twain, Frost, Hemingway, Faulkner. Reading requirements will include a full-length novel. As announced. Credit, 3 semester hours.

246. Major British Authors

Prerequisites: CMA 105, 106.

An overview of major trends and movements through a reading of works by significant writers from the Middle Ages to the present, including Chaucer, Shakespeare, Milton, Swift, Pope, Browning, Yeats, and Eliot. Reading requirements will include a full-length novel. As announced. Credit, 3 semester hours.

342. The British Novel

Prerequisite: CMA 246 recommended.

A critical study of the English novel from the eighteenth century to the present, with emphasis on social history and narrative technique. Fall of odd years. Credit, 3 semester hours.

343. The American Novel

Prerequisite: CMA 221 recommended.

A critical study of the American novel from its inception to the present, with emphasis on social history and narrative technique. Fall of even years. Credit, 3 semester hours.

366. Modern Poetry

A study of poetry with emphasis on British and American writers. As announced. Credit, 3 semester hours.

378. The American West: Myth and Reality (HST 378)

An interdisciplinary study of myth and reality of the American West as developed through film, literature and history. Although the course will emphasize the events of the period from 1850-1890, it will also attempt to show the influence of the West as a concept down to the present. Spring. Credit, 3 semester hours.

450. Seminar in American Indian Literature (AIS 450)

Prerequisite: Permission of instructor.

A study of selected topics in American Indian literature. As announced. Credit, 3 semester hours.

457. Shakespeare

Prerequisite: CMA 246 recommended.

An introduction to the Elizabethan theatre, a study of Shakespeare's career as a dramatist, and a critical survey of a number of major plays—histories, comedies, and tragedies. Fall. Credit, 3 semester hours.

465, 466. Seminar in Literature

Prerequisite: Upper-division standing in the University.

Study in a small group setting of particular figures or topics in British, American, or World Literature. Each student must contribute an extended essay or equivalent work as part of the seminar experience. Fall, Spring. Credit, 3 semester hours.

BROADCASTING/MASS COMMUNICATIONS (CMA)**210. Introduction to Mass Communications**

An introduction to the cultural effects of radio, film, television, and print (books, magazines, and newspapers) and the forces that shape their form and content. Spring. Credit, 3 semester hours.

312. Broadcasting Programming

Prerequisite: CMA 210 or consent of instructor.

The history, development, and impact of broadcast programming. Attention will be paid to program creation, survival, and audience attitudes/ratings. Analysis of current programming is included. Overview of basic programming development at both local and network levels. Both television and radio programming formats included. As announced. Credit, 3 semester hours.

313. Broadcast Copywriting

Prerequisites: CMA 316 or permission of instructor.

Theory and technique of writing broadcast scripts, to include scripts of dramas, interviews, documentaries, and advertisements or promotions. Will include both study and practical application of techniques discussed. Script formats for radio and television included. Spring, even-numbered years. Credit, 3 semester hours.

314. Broadcast Journalism

Prerequisite: CMA 210.

The theory and practice of broadcast news, to include covering local and national news and public affairs for radio and televisions. Emphasis will be on gathering and production for broadcast news. Writing for broadcast sports and weather will also be covered. Spring, odd-numbered years. Credit, 3 semester hours.

316. Television Production

Prerequisites: CMA 210 or permission of Department Chairman.

Basic theory and practice of studio operations in television, with laboratory experience in the use of control boards, records, cameras, switching and editing equipment, microphones, and related equipment. 3 hours lecture, 3 hours lab. Credit, 3 semester hours.

358. Discussion and Debate

An exploration of various discussion techniques, including parliamentary procedure, where the essentials of argumentation will be explained and practiced. As announced. Credit, 3 semester hours.

405. Law and Ethics in Public Communications

Legal and ethical considerations as they apply to the daily work of media practitioners. Emphasis on codes of ethics, professional codes, and state, federal, and local law. As announced. Credit, 3 semester hours.

408. Broadcast Management and Law

Prerequisites: CMA 210 or consent of the instructor.

Study of the social, economic, and legal responsibilities of management in the broadcasting station. Attention will be given to the managerial function of the broadcasting executive. The sociopolitical control of broadcasting to include local, state, and federal regulation of the industry. Emphasis will be placed on the unique place of broadcasting among the media in terms of regulation. As announced. Credit, 3 semester hours.

413. Internship in Broadcasting

Prerequisites: CMA 210, 240, 312 or 313, 316.

Practical application of the principles of broadcasting in the workplace. Intern will work in a television or radio station under direct supervision of station department head. Research will also be conducted in an area of broadcasting relevant to internship experience. Fall, Spring. Credit, 3-6 semester hours.

416. Broadcast Advertising and Sales

Production of successful broadcast advertising campaigns. Emphasis on creative, practical solutions to problems in broadcast advertising. Spring. Credit, 3 semester hours.

419. Advanced Television Production

Prerequisite: CMA 316.

An advanced study and practice of television with studio experience in solving the problems of production, design, direction, and performance. 3 hours lecture, 3 hours lab. Spring. Credit, 3 semester hours.

436. Mass Communication Research: Tactics and Strategies

Examination of the critical role of information gathering and reporting in the field of Mass Communications. Emphasis on information acquisition, ethical information utilization, and preparing a publishable paper on a selected topic. Fall. Credit, 3 semester hours.

475. Film Literacy

A course in film analysis including an introduction to elements of film study, a brief survey of film history, and an examination of significant directors, themes, or types of film. As announced. Credit, 3 semester hours.

COMPARATIVE AND WORLD LITERATURES (CMA)**203. Introduction to Literature**

Prerequisites: CMA 105, 106.

A study of the basic structure or elements of the various genres of literature including poetry, prose fiction, and drama. Readings include works of major authors of British, American and World literature. Fall, Spring, Summer. Credit, 3 semester hours.

204. Mythology of All Peoples

Prerequisites: CMA 105, 106.

A study of mythic motifs and themes in oral and early written literature, including Asian, African, and American Indian, as well as Greco-Roman and Teutonic-Norse literature; development of mythic traditions in early and modern societies. As announced. Credit, 3 semester hours.

205. World Literature I

Prerequisites: CMA 105, 106.

A study primarily of Western Literature, emphasizing the contributions of its greater writers to both the representative culture and the subsequent tradition, through the Renaissance. Fall, Spring, Summer. Credit, 3 semester hours.

206. World Literature II

Prerequisites: CMA 105, 106.

A study of the greatest works and authors of primarily Western literature from the seventeenth to the present century. Fall, Spring, Summer. Credit, 3 semester hours.

207. Studies in Literature

Prerequisites: CMA 105, 106.

Study of a specific genre or topic in world literature: its characteristics and significance as both a cultural product and a form of literary expression. Title and topic will vary from year to year. As announced. Credit, 3 semester hours.

302. Literary Analysis and Interpretation

Prerequisite: Six hours of literature.

An introductory study of critical approaches to literature with practice in analyzing and interpreting representative works both in the Anglo-American tradition and in English translation. Fall. Credit, 3 semester hours.

354. Modern Drama

Prerequisite: Six semester hours of 200-level literature.

A study of selections from the drama of the Western world of the nineteenth and twentieth centuries. As announced. Credit, 3 semester hours.

366. Modern Poetry (see under "British and American Literature")**465, 466. Seminar in Literature (see under "British and American Literature")****EXPOSITORY AND CREATIVE WRITING (CMA)****277. Creative Writing I**

Designed for serious study and practice of various literary forms. As announced. Credit, 3 semester hours.

305. Feature Writing

The writing of articles in-depth for newspapers and magazines. A practical course that ranges widely in terms of possible prose writing experience. Fall. Credit, 3 semester hours.

309. Editorial Writing

The study and analysis of editorial writing in major newspapers with special emphasis on principles and practices. Students will actually write editorials for publication. Spring. Credit, 3 semester hours.

370. Advanced Composition

Prerequisite: "C" grade or better in CMA 105 and 106.

An upper-division writing course for students majoring in the Humanities and the Social and Behavioral Sciences and anticipating graduate level and professional writing demands. Fall. Credit, 3 semester hours.

377. Creative Writing II

Prerequisite: CMA 277.

Designed for serious study and practice of various literary forms beyond the level presented in CMA 277. As announced. Credit, 3 semester hours.

426. Creative Writing Workshop

Prerequisite: CMA 277 or permission of Department Chairman.

This course will normally be taught by visiting writers and may be repeated for credit. Offered when circumstances warrant. Credit, 1-3 semester hours; maximum 6 semester hours.

JOURNALISM (CMA)**182, 183, 184, 282, 283, 284. Yearbook Production**

Experience in the details of producing an extended feature publication through work on the Pembroke State University yearbook, *The Indianhead*. activities will include theme development, layout design, feature writing, photography selection/cropping, entering/editing copy at the computer, art work, and general production work. Pass/Fail grading. Fall, Spring. Credit, 1 semester hours each.

191, 192, 291, 292, 391, 392, 491, 492. Student Newspaper Production

Experience in producing a student newspaper, *The Pine Needle*. Reporting, news and feature writing, editing, layout, photography, typesetting, circulation, and other activities will be offered. Pass/Fail grading. Fall, Spring. Credit, 1 semester hour each.

240. Newswriting and Reporting I

An introduction to print journalism and emphasis on the development of skills and techniques in effective newswriting. Fall, Spring. Credit, 3 semester hours.

305. Feature Writing (See under "Expository and Creative Writing")**306. News Editing and Typography**

Techniques of preparing copy for publication, the writing of newspaper headlines, and front and inside makeup (design). Fall. Credit, 3 semester hours.

308. Literary Journalism

Prerequisites: CMA 277 or 305 or 370; or permission of instructor.

Study and practice of personal reportage uniting fiction and nonfiction, using the tools of the reporter and the craft of the novelist. Students will study such literary journalists as James Agee, Hunter Thompson, Joan Didion, and Tom Wolfe and will write original articles with a story line and personal voice which gave dimension to the facts. As announced. Credit, 3 semester hours.

309. Editorial Writing (see under "Expository and Creative Writing")

317. History of American Journalism

Prerequisite: CMA 210.

A consideration of the inventions, events, and people shaping and influencing journalism in this country. The course will include topics ranging from the invention of the printing press to present-day journalistic practices and personalities. Spring. Credit, 3 semester hours.

340. Newswriting and Reporting II

Prerequisite: CMA 240 or permission of instructor.

Designed to familiarize the student with the total range of reporting possibilities. Each term a field of specialization will be chosen for emphasis. Also introduces copy-reading and news editing. Fall, Spring. Credit, 3 semester hours.

390. Internship in Journalism

Prerequisite: CMA 240, 340 or permission of Department Chairman.

A pragmatic course designed to provide the student (in an internship arrangement) with practice in writing and editing for a newspaper, radio station, or television station in the area. Fall, Spring, Summer. Credit, 3 semester hours.

LINGUISTICS AND GRAMMAR (CMA)**346. Aspects of the English Language**

An introduction to the English language including applied study of such topics as the history of the language and its acquisition, dialects, semantics, lexicography, phonology, orthography, grammatical systems, and standards of modern English usage. Fall. Credit, 3 semester hours.

371. English Grammar

A thorough review of traditional grammar, discussions of sentence patterns, transformations, and both old and new diagram forms included. Spring. Credit, 3 semester hours.

381. The English Language in American Society

Prerequisite: CMA 346 recommended.

A study of the historical development of American English in relation to the ethnic and social diversity of American culture; conditions which affect the language today; the dialects and semantics of cultural subgroups; and the impact of these upon mass media and language. As announced. Credit, 3 semester hours.

420. Issues in Contemporary American English

Prerequisite: CMA 346 recommended.

Study of the characteristic features of contemporary American English in print and non-print media; dynamic factors in linguistic change; concerns about the state of American English today. Summer/evening. Credit, 3 semester hours.

422. Seminar on Psycholinguistics (PSY 422)

A study of theories and research on the learning and usage of language. Includes speech perception, child language development, word meanings, deafness, and other related topics. Alternate falls. Credit, 3 semester hours.

PUBLIC RELATIONS/COMMUNICATION (CMA)**209. Public Relations**

A critical study of public relations as communication effort to influence and persuade in contemporary society. Spring. Credit, 3 semester hours.

214. Photography in Public Relations

Still photography in today's society. How photographs enhance public relations materials. How public relations professionals can use photographs in internal and external publications. Still photo techniques. Spring. Credit, 3 semester hours.

324. Print Advertising

Role of public relations and print advertising in multi-media promotional campaigns, based on market research and communications theory. Elements of print advertising. Fall. Credit, 3 semester hours.

350. Organizational Communications

Theories and research dealing with oral communications within organizations and institutions. Emphasis will be placed on practical matters as interview technique, crisis management, employer-employee relations and communications, and organizational communication with the public. The course will also cover professional-client communication, bargaining, and negotiation in an organizational setting. Instruction will be via lecture, discussion, problem-solving, and game-playing in a creative, communicative atmosphere. Fall. Credit, 3 semester hours.

407. Public Relations Media

Prerequisites: CMA 209, 210, 240, 306.

Uses of controlled and uncontrolled media to achieve results. Investigation of Public Relations use of media to include: radio and television; brochures and direct mail; newsletters and magazines; annual reports; and lobbying. Spring. Credit, 3 semester hours.

409. Advanced Public Relations Communication

Prerequisite: CMA 209.

A practical application of the principles of persuasive communication in public relations, with a study of case histories. Emphasis will be given to solving, implementing, and evaluating a strategy of public relations communication. Spring. Credit, 3 semester hours.

411. Internship in Public Relations

Actual work experience with a public relations department or organization. Experience should include analysis of problem, plan for resolution, implementation, and evaluation. A team project under an assigned instructor may be substituted when no internship slots are available. Fall, Spring, Summer. Credit, 3-6 semester hours.

THEATRE (CMA)**162, 163; 262, 263; 362, 363; 462, 463. Play Production**

A laboratory experience in all aspects of both Performance and Technical Theatre. Each student will participate in a minimum of one University Players production either as a performer or a member of the production crew. A minimum number of work hours is required. Maximum enrollment, 2 hours per semester. Fall, Spring. Credit, 1 semester hour each.

164. Stage Make-Up

Theory and practice in the application of make-up for the stage using practical make-up application for class exercises. Spring of alternate years. Credit, 1 semester hour.

165. Stage Costumes

Principles and theories of costume design and construction for theatrical productions. Fall of alternate years. Credit, 1 semester hour.

201. Elementary Acting

Theory and practice of the fundamentals of acting, including basic study in analyzing and building a character; introduction of styles of acting. Fall. Credit, 3 semester hours.

233. Stagecraft

Study of theories and techniques used in creating a stage environment. Students will participate in various aspects of production as a practical supplement to classroom lectures. Fall of alternate years. Credit, 3 semester hours.

234. Scene Painting

Development of basic and advanced skills in scenic painting techniques through studio projects. Spring of alternate years. Credit, 1 semester hour.

235. Stage Management

Theory and practice of stage management in Broadway, regional, community, and educational theatres. To include the stage manager's responsibilities during rehearsals as well as during performances. Spring of alternate years. Credit, 1 semester hour.

250. Introduction to Theatre

Introduction to both the practice and literature of the theatre; survey of artists of the theatre and dramatic literature from Greece to the present. Fall, Spring, Summer. Credit, 3 semester hours.

301. Advanced Acting I

Prerequisite: CMA 201.

Advanced work in theory and practice of acting; advanced work in analyzing and building a character; style of acting. Spring. Credit, 3 semester hours.

304. Creative Drama

Prerequisite: CMA 201 recommended.

Principles and practices of organizing and directing creative drama and children's theatre activities in the classroom and in the community. Fall of alternate years. Credit, 3 semester hours.

315. Voice and Diction

Fundamentals of voice production and articulation. A detailed study of the International Phonetic Alphabet will provide a means of refining and expanding communication skills. Spring. Credit, 3 semester hours.

322, 323. Special Topics in Theatre

An in-depth study of a selected topic in theatre or drama determined by the expertise of the instructor and the interests of the students. As announced. Credit, 3 semester hours each.

331. Play Direction

Prerequisite: CMA 201 or consent of instructor.

Study of the theory and practice of directing for the theatre; classroom theory supported by individual experience in selection and analysis of scripts, casting, rehearsal, and production. Fall of alternate years. Credit, 3 semester hours.

333. Lighting

Prerequisite: CMA 233 recommended.

Theories and principles of lighting design for theatrical productions. Conceptualization, communication, and execution of design ideas through script analysis, light studies, light plots, and related projects. Spring of alternate years. Credit, 3 semester hours.

334. Scene Design

Prerequisite: CMA 233 recommended.

Theory and principles of scene design for the stage. Conceptualization and communication of design ideas through renderings, models, and technical drawings. Fall of alternate years. Credit, 3 semester hours.

353. Theatre Management

Theory and practice of theatre management objectives including: theatre organization, season, budget, schedule, personnel, publicity, box office, and house management. Spring of alternate years. Credit, 3 semester hours.

360. History of the Theatre: The Beginning to 1642

Prerequisite: CMA 250 or consent of instructor.

Study of the theatre, both its physical form and literature from the beginnings of 1642. Fall of alternate years. Credit, 3 semester hours.

361. History of the Theatre: 1642 to the Present

Prerequisite: CMA 250 or consent of instructor.

Study of the theatre, both its physical form and literature from 1642 to the present. Spring of alternate years. Credit, 3 semester hours.

401. Advanced Acting II

Prerequisite: CMA 301.

Advanced work in theory and practice of acting; preparation of audition repertoire; emphasis on styles of acting. Spring. Credit, 3 semester hours.

EED 402. Methods of Teaching Dramatic Literature and Performance (see below, ENGLISH EDUCATION)**421. Performing Arts Administration**

Prerequisite: CMA 353.

Studies in fiscal, administrative, and legal principles of management as they apply to the performing arts. Fall of alternate years. Credit, 3 semester hours.

453. Directed Practicum in Advanced Theatre Problems I

Prerequisite: Declared senior major, 3.0 grade point average in major and consent of instructor.

Credit is obtained by successful fulfillment of a contractual agreement between the student and a supervising faculty member. Fall, Spring, Summer. Credit, 1-3 semester hours.

454. Directed Practicum in Advanced Theatre Problems II

Prerequisite: Declared senior major, 3.0 grade point average in major and consent of instructor.

Credit is obtained by successful fulfillment of a contractual agreement between the student and a supervising faculty member. Fall, Spring, Summer. Credit, 1-3 semester hours.

SEMINARS (CMA)**450. Seminar in American Indian Literature (see under "British and American Literature")**

455. Directed Studies Seminar

Required of all contracted majors, recommended to all CMA majors.

Prerequisite: Upper-division major.

This course teaches advanced research techniques and gives the student guidance in a program designed by the student and his or her research director. The course culminates the student's major with an independent, substantive project. Spring. Credit, 3 semester hours.

465, 466. Seminar in Literature (see under "British and American Literature")

II. ENGLISH EDUCATION (EED)

For a description of English Education programs, see above or consult the Coordinator for Undergraduate English Education.

376. The Teaching of Writing and Speech (K-6)

A study of the two essential disciplines of the Language Arts (grammar and composition, both oral and written) and a review of materials and techniques for teaching both oral and written composition in elementary school classrooms. Spring. Credit, 3 semester hours.

379. The Teaching of Writing and Speech (6-12)

A study of the two essential disciplines of the Language Arts (grammar and composition, both oral and written) and a review of materials and techniques for teaching both oral and written composition in junior high and high school classrooms. Fall. Credit, 3 semester hours.

382. Children's Literature (K-6)

A study of the leading genres in literature for students within the elementary level, K-6, with emphasis upon specific books, authors, illustrators, awards, and curriculum-correlations; materials and a drama practicum included. Fall, Spring. Credit, 3 semester hours.

384. Literature for Adolescents (6-12)

A survey of literature for adolescents, grades 6-12, emphasizing varied approaches to teaching literature within pluralistic classrooms. Attention will be given to classroom presentations in various genres as well as early field experiences. Spring. Credit, 3 semester hours.

399. Practicum in Composition Tutoring

Prerequisite: CMA 370 or 371 or 376 or 379 or current enrollment in one of these.

A supervised tutoring of composition students from the CMA department or from area schools. Pass/Fail grading. Each semester. Credit, 1-2 semester hours. Maximum: 4 semester hours.

400. Methods of Teaching English in the Secondary School (EDN 400)

Purposes, methods, materials, and evaluation procedures in the certification area, directed observation in the secondary school; preparation of teaching plans and materials; accelerated. Fall, Spring. Credit, 3 semester hours.

402. Methods of Teaching Dramatic Literature and Performance

Prerequisite: CMA 304 recommended.

Purposes, methods, materials, and evaluation procedures in the area; directed observation in the secondary school; preparation of teaching plans and materials. Fall. Credit, 3 semester hours.

III. FOREIGN LANGUAGES (FRH, GER, SPN)

A student presenting two or more units in a high school language course and wishing to continue the study of that language should, after having satisfactorily passed a review of proficiency in the language, register in the course for which the student is qualified.

FRENCH (FRH)

131, 132. Elementary French I, II

The sequence of 131-132 introduces French grammar and vocabulary and some aspects of French culture. Aural comprehension, speaking, reading, and writing are stressed in that order. Fall, Spring. Credit, 3 semester hours.

231, 232. Intermediate French I, II

Prerequisites: FRH 131, 132 or two units of high school French.

Grammar review, translation and composition; oral practice through drill and discussion. An introduction to French civilization and literature. Fall, Spring. Credit, 3 semester hours.

255, 256. French Conversation and Composition

Intensive practice in aural-oral French, based on French literature and civilization subject matter; further study of grammar, vocabulary, and idiom; further training in formal and free composition. Fall (256), Spring (255). Credit, 3 semester hours.

321, 322. Study of French Literature

Prerequisites: FRH 231, 232 or permission of instructor.

Masterpieces of French literature from the beginning to the present as an outgrowth of French history and civilization. Fall (321), Spring (322). Credit, 3 semester hours.

361. French Civilization and Culture

Prerequisite: FRH 231 or its equivalent.

A course designed to give students a better understanding of the history and civilization of French and other French-speaking countries and to increase their knowledge of the general French culture. As announced. Credit, 3 semester hours.

451. Study Abroad: Study Tour in France

Prerequisite: Permission of instructor.

A trip designed to acquaint students with various aspects of French life and Civilization through visits to places of historical and cultural interest. As announced. Credit, 2-7 semester hours.

GERMAN (GER)

131, 132. Elementary German I, II

The sequence of 131-132 introduces German grammar and vocabulary and aspects of German culture. Aural comprehension, speaking, and writing are stressed in that order. Fall, Spring. Credit, 3 semester hours.

231, 232. Intermediate German I, II

Prerequisite: Ger 131, 132 or 2 units of high school German.

Grammar review, translation and composition; oral practice through drill and discussion. An introduction to German civilization. Fall, Spring. Credit, 3 semester hours each.

SPANISH (SPN)**131, 132. Elementary Spanish I, II**

The sequence 131-132 introduces Spanish grammar and vocabulary and some aspects of Spanish culture. Aural comprehension, speaking, reading, and writing are stressed in that order. Fall, Spring. Credit, 3 semester hours.

231, 232. Intermediate Spanish I, II

Prerequisites: SPN 131, 132, or two units of high school Spanish.

The sequence 231-232 develops increased competence in aural comprehension, speaking, reading, and writing and reviews Spanish grammar. Fall, Spring. Credit, 3 semester hours.

255. Spanish Conversation and Composition

Intensive practice in oral and written Spanish, based on Latin American and Spanish cultural and civilization subject matter; further study of grammar, vocabulary, and idiom; further training in formal and free composition. Fall. Credit, 3 semester hours.

321. Survey of Literature of Latin America I

Prerequisites: SPN 232 or permission of instructor.

Masterpieces of Latin American literature from Colonization to Romanticism as an outgrowth of Latin American history and civilization. Fall. Credit, 3 semester hours.

322. Survey of Literature of Latin America II

Prerequisites: SPN 232 or permission of instructor.

Masterpieces of Latin American literature from Post-Romanticism to the present as an outgrowth of Latin American history and civilization. Spring. Credit, 3 semester hours.

331. Survey of Literature of Spain I

Prerequisites: SPN 232 or permission of instructor.

Masterpieces of Spanish literature from Middle Ages to Golden Age as an outgrowth of Spanish history and civilization. Fall. Credit, 3 semester hours.

332. Survey of Literature of Spain II

Prerequisites: SPN 232 or permission of instructor.

Masterpieces of Spanish literature from the eighteenth, nineteenth and twentieth centuries as an outgrowth of Spanish history and civilization. Spring. Credit, 3 semester hours.

361. Civilization and Culture of Latin America

Prerequisites: SPN 232 or permission of instructor.

A course designed to give students a better understanding of the history and civilization of Latin America and to increase their knowledge of general Hispanic culture. Fall. Credit, 3 semester hours.

362. Civilization and Culture of Spain

Prerequisites: SPN 232 or permission of instructor.

A course designed to give students a better understanding of the history and civilization of Spain and to increase their knowledge of general Hispanic culture. Spring. Credit, 3 semester hours.

EDUCATION

Chairman: DONALD R. LITTLE

PAUL J. BERGHOFF
DALTON P. BROOKS
RHONDA P. COLLINS³
WANDA S. DICKSON
BEN JAY DRYMON
SANDRA T. HOUSTON
ZOE WOODELL LOCKLEAR¹

WILLIE MCNEILL, JR.
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LAWRENCE R. SCHULTZ⁴
SHARON L. SHARP
KATHRYN M. SULLIVAN*
DANA WASHINGTON
JUDITH L. WISH²

*Director of Teacher Education

¹Director of Teacher Education Field Experiences

²Elementary Education Coordinator

³Middle Grades Education Coordinator

⁴Special Education Coordinator

The primary function of the Department of Education is to provide professional preparation for individuals who are preparing to teach in the public schools. The total program of professional education is designed to encompass an understanding of the learner, of the learning process, of the school, and of the meanings and purposes of education, and to foster the development of professional skills in methods and techniques of instruction. The Department of Education utilizes the resources of the entire University for the academic subject matter necessary for breadth and depth of background in the liberal arts and in the sciences, both of which are essential to effective teaching. The professional program is designed to meet the criteria for teacher certification as set forth by the North Carolina Department of Public Instruction, the criteria for accreditation by the National Council for the Accreditation of Teacher Education (NCATE), and the criteria implied in the mission statement of the University.

Policies and requirement for Teacher Education and certification are found in the Curricula and Degrees section of this catalog (pp. 74). Students have the responsibility for consulting with their major advisor and the Education Department in order to keep abreast of all regulations and information concerning their academic record for graduation and/or certification. All prospective teachers should study the requirements of the state in which they plan to teach, as well as the requirements of the University, keeping in mind that graduation and certification programs are not necessarily the same even though it is possible to achieve both in a planned program.

THE CURRICULUM LABORATORY

The Curriculum Laboratory or materials center is a unit within the Department of Education and is an essential part of the teacher education facility which contains professional and instructional materials and which provides support to all areas of the teacher education program. The Laboratory has, for example, textbooks used in elementary and secondary school, teaching units, courses for study, instructional media and equipment, curriculum outlines, and supplies and materials for the production and preparation of teaching materials.

THE LEARNING LABORATORY

The Learning Lab is a unit within the Department of Education. The lab, which is utilized by professors and education majors, provides space for the study and development of instructional materials—commercial and teacher-made. In addition to a wide collection of manipulative and multi-sensory materials, the Learning Lab also houses furniture and other physical equipment appropriate for creating flexible educational environments.

TEST REVIEW/RESOURCE CENTER

The Test Review/Resource Center, located in Room 101B of the Education Center, houses a variety of materials designed to assist students preparing to take the National Teacher Examinations. All education majors are encouraged to utilize the resources available in this Center.

ELEMENTARY EDUCATION AND MIDDLE GRADES EDUCATION

The Department of Education currently offers programs leading to the Bachelor of Science degree in **Elementary Education** (K-6) A Bachelor of Science degree in **Middle Grades Education** (6-9) is also offered. Curriculum checksheets outlining course recommendations for meeting the program of study requirements for each major are available from departmental advisors and the office of the Chairman of the Department of Education. All students desiring teacher certification should meet with a teacher education advisor as early in the program as possible.

Requirements for a Bachelor of Science Degree in Elementary Education (K-6)

Coordinator: Dr. Judith L. Wish

	Sem. Hrs.
University Orientation	1
Basic Studies*	50
Education Major	36
ART 106 Art Education in the Public Schools	
MUS 224 Musical Experiences for Elementary Children, K-6	
HED 310 Teaching Health and Safety in the Elementary School	
PED 316 Physical Education Activities for Grades K-6	
EDN 304 Curriculum in the Elementary School	

EDN 413 Reading for Success in Elementary School	
EDN 421 Teaching Language Arts in the Elementary School	
EDN 453 Teaching Social Studies in the Elementary School	
EDN 455 Teaching Science in the Elementary School	
EDN 463 Teaching Mathematics in the Elementary School	
EDN 465 Educational Trends and Practices in Pre-School Education	
HST 317 History of North Carolina	
Professional Education	25
EDN 227 Foundations of Education I	
EDN 202 Educational Psychology	
EDN 307 Human Growth and Development	
EDN 410 Early Literacy and Reading Development in the Elementary School	
EDN 430 Mainstreaming the Exceptional Student	
EDN 446 Student Teaching in the Elementary School	
EDN 475 Professional Seminar for Pre-Service Teachers in the Elementary School	
Academic Concentration	18
Total	130

*Students who plan a major and desire teacher certification in Elementary Education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Science Degree in Middle Grades Education (6-9)

Coordinator: Dr. Rhoda P. Collins

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	52
EDN 300, 405; CSC 405; HST 101/102; PHS 108; BIO 100L and two academic areas of concentration**	
Professional Educational Requirements	25
EDN 202, 227, 419, 309, 430, 440, 456, 476	
Total	128

*Students who plan a major and desire teacher certification in Middle Grades Education should consult with the Department Chairman prior to registering for Basic Studies Courses.

Students who enter the University after Fall 1989 and seek Middle Grades Certification are required to complete **one Academic Concentration **and** **two** teaching concentrations (certification areas), one of which may be in the same field. Specific requirements are available from the Middle Grades Coordinator and from appropriate academic departments. Certification is available in Language Arts (Department of Communicative Arts), Mathematics, Science (see Science Education Program), and Social Studies (Department of History). Information on the requirements for these concentrations is contained under the appropriate department description in this catalog.

SPECIAL EDUCATION

The Department of Education offers a program leading to the Bachelor of Science degree in Special Education with recommendation for North Carolina Certification. Curriculum checksheets are available from departmental advisors and the office of the Chairman of the Department of Education. Students must meet the criteria stated in the Pembroke State University general catalog for admission to the Teacher Education Program.

Requirements for a Bachelor of Science Degree in Special Education

Coordinator: Dr. Lawrence R. Schultz

Learning Disabilities Track

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	51-52
Academic Concentration**	19-22
Major Requirements	30
SED 100, 200, 302, 310, 340, 401, 440, 490; EDN 425, 472	
Professional Education Requirements	25
EDN 202, 227, 306, or 307 or 308, 410; 430 SED 449, 471	
Electives	0-3
Total	128

Mental Retardation Track

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	51-52
Academic Concentration**	19-22
Major Requirements	30
SED 100, 200, 301, 310, 320 or 330 or 340, 400, 490; EDN 425, 472; HED 418	
Professional Education Requirements	25
EDN 202, 227, 306 or 307 or 308, 410, 430 SED 449, 470	
Electives	0-3
Total	128

*Students who plan a major in Special Education should consult with the Department Chairman prior to registering for Basic Studies courses.

**The Special Education program recommends Psychology. Please see the program coordinator if you are considering another concentration.

COURSES

EDUCATION (EDN)

102. Language Skills in Teaching Reading

A study designed for helping prospective elementary teachers improve their power in the use of language skills in the teaching of reading. Fall, Spring, Summer. Credit, 3 semester hours.

104. College Reading

This course is designed to foster effective and efficient reading. Vocabulary, comprehension, and strategies for reading college texts are addressed. (Will not count toward graduation requirements). Open to all students. Fall, Spring. Credit, 3 semester hours.

202. Educational Psychology

Prerequisite: EDN 227.

Theoretical and empirical findings of psychology related to the teaching-learning process in the classroom. Fall, Spring, Summer. Credit, 3 semester hours.

227. Foundations of Education I

Philosophical, historical, and sociological foundations of education, including analysis of contemporary issues and problems. It is the beginning screening course for those seeking teacher certification. Fall, Spring, Summer. Credit, 3 semester hours.

300. Introduction to the Middle School

Prerequisites: EDN 227 and EDN 202.

This course is designed to provide students both with an introduction to the underlying principles and rationale of the middle school and an observational/tutorial experience at the middle school level. Four or more contact hours per week will be required. Fall, Spring. Credit, 3 semester hours.

301. Early Childhood Curriculum

Prerequisite: EDN 202.

A study of curriculum emphasizing the interrelationships between content, method, and child development. Required of all early childhood majors. (Must be taken prior to student teaching.) As announced. Credit, 3 semester hours.

304. Curriculum in the Elementary School

Prerequisite: EDN 202.

A study of curriculum with emphasis focused on the interrelationships between content, method, child development, and planning in implementing developmentally appropriate elementary programs. Fall, Spring. Credit, 3 semester hours.

306. Psychology of Early Childhood

Empirical findings and theories concerning early childhood growth and development and their relevance to early childhood education. As announced. Credit, 3 semester hours.

307. Human Growth and Development

A study of theories and principles of human growth and development from conception through elementary grades (birth through pre-adolescence). Emphasis is placed on the relationship between developmental needs and school achievement. Fall, Spring. Credit, 3 semester hours.

308. Psychology of Adolescence

Empirical findings and theories of adolescence relevant to the behavior and learning of adolescents. Fall, Spring, Summer. Credit, 3 semester hours.

309. The Early Adolescent

Prerequisites: EDN 227 and EDN 202.

This course covers growth and development of the middle grades student (ages 12-15). Focus is placed on the psychological and sociological complexities of late childhood and emerging adolescence. Fall, Spring. Credit, 3 semester hours.

310. Developmental Psychology: From Youth to Young Adulthood

Prerequisite: EDN 227, EDN 202.

For K-12 Certification areas, a scientific and current study of the development of the child from the prenatal period through adolescence across the cognitive, social-moral, physical, and personality-emotive domains. How children and adults live is examined as well as the social conditions that influence their lives. Practical applications of child development research and its relevance to the lives of adults and children and the education of the latter is explored. Field experience required. Fall, Spring. Credit, 3 semester hours.

400. Methods of Teaching in the Secondary School (BED 400, EED 400, MAT 400, SCE 400, SSE 400)

Purposes, methods, materials, and evaluation procedures in the subject or area indicated; directed observation in the public schools; preparation of teaching plans and materials: (a) social studies, (b) mathematics, (c) science, (d) English, (e) business education. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

405. Curriculum Development for Middle Grades

Prerequisites: EDN 300 and EDN 309.

Study of trends, current issues, and the design, implementation, and evaluation of curriculum for the middle grades. Fall, Spring. Credit, 3 semester hours.

410. Early Literacy and Reading Development in the Elementary School

A study of thinking and language development, early literacy, and developmentally appropriate environments and instructional strategies for reading development. Field experience required. Fall, Spring. Credit, 3 semester hours.

413. Reading for Success in Elementary Grades

Prerequisite: EDN 410.

A study of materials, practices, research, and diagnostic procedures for teaching reading within the context of total language development. Emphasis will also be given to using reading as a tool for learning in various subject areas. Field experience required. Fall, Spring. Credit, 3 semester hours.

418. Measurement and Evaluation in Public Schools

A study of current educational measurement. Includes the use and construction of standardized mental and achievement tests, and of informal, teacher-made tests. Fall or Spring. Credit, 3 semester hours.

419. Teaching Content Area Reading

Methods and materials for teaching the basic reading skills and the specific reading skills required to read in the content areas. Required of all middle grades and secondary level certificate candidates. Fall, Spring. Credit, 3 semester hours.

420. Workshop in the Teaching of Reading

Prerequisite: EDN 413 or its equivalent.

A study of current reading problems, materials, methods, and instructional media designed to give the classroom teacher practical experience in the teaching of reading. Summer. Credit, 3 semester hours.

421. Teaching Language Arts in the Elementary School

A study of language acquisition and development theory as it relates to the teaching of language arts (listening, speaking, reading, writing, and viewing) in the elementary grades (K-6) with emphasis on children's literature and creative dramatics. Field experience required. Fall, Spring. Credit, 3 semester hours.

423. Research in Elementary Education

An introduction to research, designed to allow student investigation and report of a problem in elementary education with the approval and guidance of the instructor. Fall, Spring, Summer. Credit, 1-6 semester hours.

424. Modern Trends in the Teaching of Reading

Prerequisite: EDN 410 or EDN 413 or EDN 419.

Designing reading programs at all levels based on a comprehensive study of current research in the area of reading instruction. Summer. Credit, 3 semester hours.

425. Classroom Diagnosis of Reading Difficulties

Prerequisite: EDN 410 or EDN 413 or EDN 419.

Methods and materials used in the diagnosis and remediation of reading difficulties. Fall, Spring, Summer. Credit, 3 semester hours.

426A, 426B. Design and Implementation of Developmentally Appropriate Preschool Programs

To provide assistance to pre-service teachers, child care workers, Head Start teachers, preschool teachers, early childhood and special education teachers in the planning, implementation, and evaluation of developmentally appropriate programs for children, ages birth to five. Pass/Fail grading. As Announced. Credit, 3-6 semester hours. (3 Hours may be repeated once for total of 6 semester hours credit.)

430. Mainstreaming the Exceptional Student

Prerequisite: EDN 227, EDN 202.

A study of the special-needs student in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

433. Research in Secondary Education

An introduction to research designed to allow student investigation and report of a problem in secondary education with the approval and guidance of the instructor. Fall, Spring, Summer. Credit, 1-6 semester hours.

434. Problems in Contemporary Education

Designed for individual study of trends, practices, and instructional materials related to current problems in education. Fall, Spring, Summer. Credit, 1-3 semester hours.

440. Foundations of Education II (Middle Grades)

Prerequisite: Admission to the professional education semester.

This course provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the middle grades teacher in the classroom, the school, the school system, and education. Fall, Spring. Credit, 3 semester hours.

441. Foundations of Education II (Reading Grades)

Prerequisite: Admission to the professional education semester.

Provides an understanding of the purposes, organization, and administration of reading programs in schools. Consideration is given to the role of the reading teacher in working with students as a reading resource teacher in schools. Fall, Spring. Credit, 3 semester hours.

444. Foundations of Education II (Special Education)

Prerequisite: Admission to the professional education semester.

Provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the teacher in the special education classroom, the school, the school system, and education. Fall, Spring, Summer. Credit, 3 semester hours.

445. Foundations of Education II (Secondary)

Prerequisite: Admission to the professional education semester.

This course provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the secondary teacher in the classroom, the school system, and education. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

446. Student Teaching in the Elementary School (K-6)

Provides a semester long full-time student teaching experience in both early childhood and intermediate levels in an off-campus public school setting. Pass/Fail grading. Fall, Spring. Credit, 9 semester hours.

448. Student Teaching in the Secondary School

Provides continuous full-time student teaching experiences in an off-campus public school in the subject area for which the candidate is preparing to teach. Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

450. Student Teaching in Reading Education

Provides continuous full-time student teaching experiences in an off-campus school in the teaching of reading. Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

453. Teaching Social Studies in the Elementary School

Prerequisite: Basic studies requirements in history.

Designed to provide the prospective and/or in-service teacher with the opportunity to gain proficiency in analyzing social studies content and evaluating materials, trends and issues in the elementary school. Fall. Credit, 3 semester hours.

455. Teaching Science in the Elementary School

Prerequisite: Basic studies requirements in science.

Designed to assist prospective and/or in-service teachers in developing competencies for teaching elementary school sciences. Special emphasis will be placed on (1) designing a science curriculum which focuses on the interrelationship that exists among the science content areas, and (2) developing a process-oriented science program based on the developmental needs of the elementary school child. Spring. Credit, 3 semester hours.

456. Student Teaching in the Middle Grades

Provides continuous full-time student teaching experiences in an off-campus school at the middle grades level. Fall, Spring. Credit, 6 semester hours.

463. Teaching of Mathematics in the Elementary School

Prerequisite: Basic studies requirement in mathematics.

A laboratory-type course designed to help students further develop their understanding of mathematics content and processes while learning to focus on how children learn mathematics and to design and/or implement developmentally appropriate methodology for the teaching of mathematics in the elementary school. A tutorial field experience is required. (Must be taken prior to student teaching.) Fall, Spring. Credit, 3 semester hours.

465. Educational Trends and Practice in Pre-School Education

A study of educational trends and emerging patterns of contemporary education for the pre-school child. Emphasis placed on the roles and responsibilities of administrators, teachers, parents, volunteers and local agencies in the operation of preschool programs. Spring, Summer. Credit, 3 semester hours.

467. Practicum: Pre-School Education

Provides majors and/or non-majors an opportunity to attain experience with very young children in a group setting. Practicum will provide supervised experience in a high quality infant care, day care, nursery school or other approved pre-school setting. Fall, Spring. Credit, 3 semester hours.

472. Diagnostic and Remedial Mathematics Methods

Students will learn techniques for diagnosis and remediation of mathematical skill problems of children in grades K through 9. Students will also demonstrate competency in using resources and research related to mathematics (in education.) As announced. Credit, 3 semester hours.

475. Professional Seminar for Pre-Service Teachers in the Elementary School

Prerequisite: Admission to the Professional Semester.

A seminar designed to parallel the full semester student teaching experience. Emphasis will be on helping these on-site pre-service teachers understand the purpose, organization, and administration of schools and school systems as well as the role of the elementary teacher. Opportunities will be provided for these pre-service teachers to continuously review the developmentally appropriateness of instructional approaches, assessment strategies, behavior management systems, curriculum models, and the appropriate utilization of human and physical resources in the elementary school. Fall, Spring. Credit, 3 semester hours.

476. Instructional Approaches to Middle School Grades

Prerequisite: Admission to the Professional Education Semester.

Stresses the use of innovative teaching strategies and specialized materials and resources in the middle grades, including interdisciplinary team teaching. Faculty representing concentration areas in the middle grades will serve as resource persons. Fall, Spring. Credit, 3 semester hours.

477. Resources for Education of Young Children

Introduces early childhood majors to strategies for utilizing human and physical resources for the education of young children. Emphasis will be placed on: (1) early and continuous involvement of parents or caregiver agencies serving children and families, as well as on community and school support personnel. (2) selection and evaluation of environments, equipment, and materials; and (3) the utilization of state and community resources. Fall, Spring. Credit, 3 semester hours.

478. Techniques, Materials, and Resources in Reading Education

Prerequisite: Admission to the professional education semester.

This course stresses the use of specialized materials, equipment, and resources included in the teaching of reading in developmental and remedial school situations. Fall, Spring. Credit, 3 semester hours.

479. Practicum in Corrective Reading

Required for: Middle grades education (6-9) majors seeking a concentration in reading. Prerequisites: EDN 419, 421, 425.

Provides the student an opportunity to engage in the diagnosis and remediation of reading disability cases within a variety of situations under supervised conditions. Required for area of concentration in reading for the middle grades major. Fall, Spring. Credit, 3 semester hours.

484. Tests and Measurement in Reading

Prerequisite: EDN 410 or EDN 413 or EDN 419.

A consideration of the nature and function of measurement in reading education, teacher-made and standardized tests and scales. Introduction to statistical concepts of measurement in reading education. Fall, Spring, Summer. Credit, 3 semester hours.

485. Practicum in Reading Education: Diagnosis

Prerequisites: EDN 410 or EDN 413 or EDN 419, and EDN 425 (or must be taken concurrently with EDN 425)

Students engage in the actual diagnosis of children with reading disabilities under supervised laboratory conditions. Fall, Spring. Credit, 3 semester hours.

486. Practicum in Reading Education: Remediation

Prerequisite: EDN 485.

Under supervised laboratory conditions, students provide corrective and remedial reading instruction to children diagnosed as having reading disabilities. Fall, Spring. Credit, 3 semester hours.

487. Assisting the Classroom Teacher with Reading Instruction

Prerequisites: EDN 410 or 413 or 419.

This course is designed to provide a background which will enable the special reading teacher to assist the classroom teacher with developmental and corrective reading classes. Emphasis will also be placed on effective consulting techniques. Fall, Spring. Credit, 3 semester hours.

SPECIAL EDUCATION (SED)**100. Practicum: Students with Mental Handicaps; Learning Disabilities; and Behavior-Emotional Handicaps**

An introductory course combining theory and early field experiences with children with mental handicaps, (mild, moderate, severe/profound), learning disabilities and behaviorally-emotionally handicaps. Fall, Spring. Credit, 3 semester hours.

200. Introduction to Children with Exceptionality

Introduction to the principles, problems, characteristics, and psychological aspects of children who are classified exceptional. includes the study of children who have mental handicaps; learning disabilities; visual impairments; hearing handicaps; communication disorders; behavior disorders; multiple, severe, and physical disorders; as well as talents and gifts. Fall or Spring. Credit, 3 semester hours.

280. Manual Communications I (Sign Language)

Students will learn to finger spell, to use manual communications, and to describe categories of hearing loss. As announced. Credit, 1 semester hour.

281. Manual Communications II (Sign Language)

Prerequisite: SED 280.

Students will develop a large vocabulary and greater facility with manual communications. As announced. Credit, 1 semester hour.

282. Manual Communications III (Sign Language)

Prerequisite: SED 281.

The student will continue to develop vocabulary and fluency. Video taping and other means of feedback will be used to enhance the skills of fluency, speed, and accuracy. As announced. Credit, 1 semester hour.

301. Special Education Curriculum/Students with Mental Handicaps

A study of the development of a compensatory curriculum for the individual who is mentally handicapped. Emphasis will be placed on scope and sequence as well as the uniqueness of the curriculum for individuals. Fall or Spring. Credit, 3 semester hours.

302. Special Education Curriculum/Students with Learning Disabilities

A study of the development of curriculum for the student with a learning disability and its relationship to the regular curriculum. Emphasis will be placed on scope and sequence as well as the uniqueness of the curriculum for the individual. Fall, Spring. Credit, 3 semester hours.

310. Introduction to Mental Retardation

Study of people with mental handicaps as educational, psychological, and social issues; includes characteristics, identification, prevalence, and educational provisions. Fall, Spring. Credit, 3 semester hours.

320. Teaching Individuals with Severe Handicaps

Study of people with severe and profound mental handicaps as educational, psychological, and social issues; includes characteristics, identification, prevalence and educational provisions. Fall, Spring. Credit, 3 semester hours.

330. Teaching Individuals with Behavioral-Emotional Handicaps

Designed to teach skills in the recognizing, understanding, and developing alternative strategies for remediating emotional handicaps and behavior disorders in the classroom and in the home. As announced. Credit, 3 semester hours.

340. Children with Learning Disabilities

Definition, description, and educational remediation of childhood learning disabilities. Fall or Spring. Credit, 3 semester hours.

350. Teaching Students with Academic Gifts

An applied course in the education of students with academic gifts. Emphasis is placed upon the psychological aspects of and methods for teaching students with academic gifts and talents. Fall, Spring. Credit, 3 semester hours.

400. Educational Assessment of Children with Mental Handicaps

An overview of the assessment process including basic concepts of measurement, test administration and interpretation, and the application of assessment information as it relates to learners with mental handicaps. Fall, Spring. Credit, 3 semester hours.

401. Educational Assessment of Children with Learning Disabilities

Provides an introduction to and practical experience with formal and informal techniques used to evaluate children with learning disabilities. Emphasis includes the interpretation of assessment information for purposes of educational programming and individualization of instruction. Fall, Spring. Credit, 3 semester hours.

440. Teaching Adolescents with Learning Disabilities

A study of the adolescent with learning disabilities. Various service models are discussed and an in-depth study of several major models are offered. Fall, Spring. Credit, 3 semester hours.

449. Student Teaching in Special Education

Provides continuous full-time full-semester teaching experience in off-campus public school settings in special classes for exceptional children. The categorical assignment will be dependent upon the pre-service teacher's concentration and will include both elementary and secondary placements. Fall, Spring. Credit, 9 semester hours.

- 470. Techniques, Materials, and Resources in Special Education/Children with Mental Handicaps**
A study of the problems, methods, techniques and materials used in teaching students with mental handicaps. A diagnostic and prescriptive approach will be taught with special emphasis on the age and academic level which the student plans to teach. Fall, Spring. Credit, 3 semester hours.
- 471. Techniques, Materials, and Resources in Special Education/Learning Disabilities**
A study of the problems, methods, techniques and materials used in teaching students with learning disabilities. A diagnostic and prescriptive approach will be taught with special emphasis on the age and academic level which the student plans to teach. Fall, Spring. Credit, 3 semester hours.
- 480. Developmental Assessment of the Preschool Child with Handicaps**
This course begins with a study in all aspects of normal development and a survey of all exceptionalities as related to child development and learning. Further, the course will provide preparation in diagnostic skills in sufficient depth to develop competencies in screening and developmental assessment. As announced. Credit, 3 semester hours.
- 481. Techniques, Materials, and Resources in Special Education/Preschool Handicapped**
This course provides for competencies in methodology, techniques of instruction, development and implementation of specific curriculum as these relate to early intervention of preschool children with handicaps. As announced. Credit, 3 semester hours.
- 482. Preschool Children with Handicaps in the Home/Community**
This course provides experiences necessary for effective parent/family involvement. Additionally, topics include a review of community resources, related and support services and interagency networking. As announced. Credit, 3 semester hours.
- 490. Discipline and Classroom Management**
School and home applications of discipline techniques will be explored. Topics include consulting with teachers and other professionals, working with parents, and exploring a variety of interpersonal issues in the school environment. Participants will be presented with a variety of models of discipline and encouraged to choose the one(s) most compatible with their personality and goals. Fall, s. Credit, 3 semester hours.

EDUCATIONAL MEDIA (EDM)

258, 259; 358, 359; 458, 459. Radio Broadcasting Laboratory

Prerequisite: Permission of instructor; GPA 2.0; recommendation of the Office of Student Affairs and/or major advisor.

Designed to teach fundamentals of radio broadcasting. Station WPSU is used as the laboratory. Includes orientation to station policies, operation and maintenance of equipment, and radio broadcasting. Pass/Fail grading. As announced. Credit, 1 semester hour.

360. Introduction to Graphic Arts

Prerequisite: Permission of instructor.

Designed as an introduction to handset and offset printing. Covers the areas of basic press operations, mechanics of type, copy camera operations, darkroom techniques, and plate processing. Pass/Fail grading. As announced. Credit, 3 semester hours.

361. Advanced Graphic Arts

Prerequisite: EDM 360 and/or permission of instructor.

A continuation of EDM 360. Pass/Fail grading. As announced. Credit, 3 semester hours.

460. Audio-Visual Materials and Procedures

Principles underlying the selection and use of multimedia materials for instructional purposes. Fall, Spring, Summer. Credit, 3 semester hours.

461. Advanced Educational Media

Modern communications technology and its place in instruction. Problems of utilization, evaluation of learning materials and research; television, motion pictures, teaching machines, programmed instruction and experimental innovations. Fall, Spring, Summer. Credit, 3 semester hours.

466. Workshop in Education Media for Teachers

A workshop designed to acquaint in-service teachers with the role of educational media in the teaching-learning process with the selection and utilization of major types of audio-visual materials. Summer. Credit, 3 semester hours.

GEOLOGY AND GEOGRAPHY

Chairman: THOMAS E. ROSS

SUELLEN CABE

ELIZABETH H. KUO

The curriculum of the Department of Geology and Geography is designed to fulfill multiple needs of the student. Courses within the Department can be used by the student to meet Basic Studies requirements and to enhance the liberal arts education of the student.

The Department strives to offer courses designed to enable the student to acquire knowledge and appreciation of the dynamic environment in which mankind resides. Geography courses provide the scientific foundation for the investigation and understanding of the physical environment, of mankind as inhabitant of the earth, and of the interaction of environment and mankind. Courses in geology establish the foundation for scientific investigation of the earth as well as geologic education for the student.

The Department does not offer a major in either geology or geography, but it does offer academic concentrations in geology and in geography. It also offers a concentration in earth science in the interdepartmental Bachelor of Science program in Science Education. Please see **Special Programs** for a complete description of the Science Education major. Minors in geography and geology also are available.

Geography courses are accepted under Basic Studies Requirements as Social and Behavioral Science courses. Geology courses are accepted under the Basic Studies Requirements in Natural Sciences and Mathematics. (See note above course descriptions.)

Requirements for an Academic Concentration in Geography

Required Courses

Course Number	Course Title	Semester Hours
GGY 101	Introduction to Geography	3
GGY 102	World Regional Geography	3
GGY 250	Cartography	3

Choose two courses from the following:

GGY 115	Earth Science	3
GGY 200	World Cultural Geography	3
GGY 206	Economic Geography	3
GGY 246	Climatology	3
GGY 262	Environmental Geology	3

Choose three courses from the following:

GGY	329	Society and Environment	3
GGY	360	Urban Geography	3
GLY	366	Geomorphology	3
GGY	401	Internship in Geography	4
Total			24 semester Hours

Requirements for an Academic Concentration in Geology

Required Courses

Course Number	Course Title	Semester Hours
GLY 100	Physical Geology	3
GLY 100L	Physical Geology Lab	1
GLY 125	Earth History	3
GLY 125L	Earth History Lab	1
GLY 262	Environmental Geology	3
GLY 310	Mineralogy and Petrology	3
GLY 325	General Paleontology	3
GLY 366	Geomorphology	3
GLY 425	Stratigraphy and Sedimentology	3

Choose one of the following:

GLY	226	Physical Oceanography	3
GLY	246	Climatology	3
GGY	250	Cartography	3
Total			26 Semester Hours

Requirements for a Minor in Geography

Course Number	Course Title	Semester Hours
GGY 101	Introduction to Geography	3
GGY 250	Cartography	3
Electives from departmental geography courses		12
Total		18 Semester Hours

Requirements for a Minor in Geology

Course Number	Course Title	Semester Hours
GLY 100	Physical Geology	3
GLY 100L	Physical Geology Lab	1
GLY 125	Earth History	3
GLY 125L	Earth History Lab	1
GLY 310	Mineralogy and Petrology	3
GLY 325	General Paleontology	3

Choose two from the following:

GLY	226	Physical Oceanography	3
GLY	262	Environmental Geology	3
GLY	366	Geomorphology	3
GLY	425	Stratigraphy and Sedimentology	3
GGY	250	Cartography	3
Total			20 Semester Hours

COURSES

GEOLOGY (GLY)

Geology 100 and 115 may be used to meet Basic Studies requirements in the Natural Science and Mathematics area.

100. Physical Geology

Introduction to earth materials and processes. Topics include minerals and rocks, weathering, landscape formation by streams, glaciers and ocean waves, study of volcanoes, earthquakes and plate tectonics. Fall, Spring. Credit, 3 semester hours.

100L. Physical Geology Laboratory

Prerequisites: Current enrollment in or completion of GLY 100.

Study of common minerals and rocks; use of topographic and geologic maps. Fall. Credit, 1 semester hour.

115. Earth Science (GGY 115)

Includes topics in geology, oceanography, meteorology and astronomy. Minerals and rocks, volcanoes, earthquakes; ocean tides and currents, shoreline processes; atmospheric pressure, wind, precipitation, weather patterns; sky observation, solar system. Spring. Credit, 3 semester hours.

115L. Earth Science Laboratory (GGY 115L)

Prerequisites: Current enrollment in or completion of GLY 115.

Study of common minerals and rocks, topographic maps, climate classification, weather processes. Spring. Credit, 1 semester hour.

125. Earth History

Prerequisites: GLY 100 or GLY 115

Geologic history of the earth as recorded in the rock record. Topics include geologic time, evolution of the atmosphere, continents and oceans, fossils, and the development of life through time. Spring. Credit, 3 semester hours.

125L. Earth History Laboratory

Prerequisites: Current enrollment in or completion of GLY 125.

Study of animal and plant fossils, environments of deposition, geologic maps. Spring. Credit, 1 semester hour.

226. Physical Oceanography

Prerequisites: GLY 100 or GLY 115.

Ocean circulation, properties of ocean water, waves and tides, and processes of shoreline erosion and deposition. The relationship between marine processes and human use of coastal areas will be emphasized. Spring, odd years. Credit, 3 semester hours.

246. Climatology (GGY 246)

The same course as Geography 246. As announced. Credit, 3 semester hours.

262. Environmental Geology (GGY 262)

Prerequisites: GLY 100 or GLY 115.

Aspects of geology related to problems arising from intensive use of the earth by modern society. The use of earth materials, energy resources and groundwater will be considered along with land use planning. Credit, 3 semester hours.

310. Mineralogy and Petrology

Prerequisites: GLY 100 or GLY 115.

Study of minerals and rocks with an emphasis on origins, classification and identification. Fall, even years. Credit, 3 semester hours.

325. General Paleontology

Prerequisites: GLY 100 and BIO 100.

Study of fossil invertebrates, vertebrates and plants with emphasis on evolutionary trends. Fall, even years. Credit, 3 semester hours.

366. Geomorphology

Prerequisites: GLY 100.

Advanced study of landforms-fluvial, solution, glacial, marine, eolian, volcanic, and structural. History of geomorphic theories and regional landforms will also be covered. Fall, odd years. Credit, 3 semester hours.

425. Stratigraphy and Sedimentology

Prerequisites: GLY 101.

Study of environments of deposition of sediments and stratigraphic principles including facies and correlation. Classic examples from the geologic record will be used. Spring, even years. Credit, 3 semester hours.

GEOGRAPHY (GGY)

Geography 101, 102, 200, and 206 may be used to fulfill Basic Studies requirements in the Social and Behavioral Science area.

101. Introduction to Geography

The study of the earth's physical environment and the relationships between people and the environment. Important components of this course include: population growth and movement, racial, economic, and political patterns, spatial origins of diverse religions and languages, landforms, soils, vegetation, weather, and climate. Fall, Spring. Credit, 3 semester hours.

102. World Regional Geography

Survey of most countries and regions of the world. An examination of cultures, economies, and physical characteristics as they relate to contemporary problems in world affairs. Presents an overview of the multicultural earth. Fall and Spring. Credit, 3 semester hours.

111. Geography of Current Events

An examination of the geographic themes of location, place, regions, and interactions of physical—cultural environments as they apply to world current events. Spring. Credit, 2 semester hours.

115. Earth Science (GLY 115)

The same course as GLY 115. Spring, Fall. Credit, 3 semester hours.

115L. Earth Science Laboratory (GLY 115L)

The same course as GLY 115L. Spring. Credit, 1 semester hour.

200. World Cultural Geography

Concept of culture applied to the human environment. Geographical variations and evolution resulting from interaction between cultural and physical processes. Culture and technological change. Population and migration. Cultural effects on perception of the environment. Spring. Credit, 3 semester hours.

- 206. Economic Geography (ECN 206)**
Location, development and distribution of major industries, agricultural products, and economic services. As announced. Credit, 3 semester hours.
- 246. Climatology (GLY 246)**
Scientific analysis and classification of climate data. Climatic controls. Geographic areas and their major types of climate. As announced. Credit, 3 semester hours.
- 250. Introduction to Cartography**
Concepts and skills of map and air-photo interpretation. Cartographic techniques and conventions for planning the use of terrain and resources. Spring. Credit, 3 semester hours.
- 262. Environmental Geology (GLY 262)**
The same course as GLY 262. Fall, odd years. Credit, 3 semester hours.
- 299. Geography of Robeson County**
Prerequisite: GGY 101 or permission of instructor.
A survey of the cultural and physical environments of Robeson County. This course is a regional study assessing the natural and human resources with special attention to current ecological, social, and economic problems. As announced. Credit, 2 semester hours.
- 329. Society and the Environment (SOC 329)**
A study of the social aspects of the natural environment. Environmental factors influencing societal development, and ideological conceptions which relate people to their surroundings are explored. The interdependence of culture and physical resources is stressed. Fall. Credit, 3 semester hours.
- 360. Urban Geography**
Spatial structures, forms and functions of urban settlements. Size and spacing of towns and cities. Arrangement of land uses. Central business districts. Poverty, blight and renewal. Ports, transportation, and hinterlands. As announced. Credit, 3 semester hours.
- 372. North America**
Analysis of physical and cultural bases of North American geographic patterns. Emphasis upon natural conditions, settlement patterns, and regional structure. As announced. Credit, 3 semester hours.
- 377. Geography of American Indians**
Prerequisites: GGY 101 or GGY 102
An historical and cultural geography of American Indians from the time of European contact. Will focus upon population dynamics, settlement, patterns, economic development, land use, and physical resources. Spring, even numbered years. Credit, 3 semester hours.
- 401. Internship in Geography**
Prerequisite: Permission of instructor.
Practical experience with a planning agency through an arranged internship. Supervision is provided by a designated official of the agency and by a member of the department faculty. As announced. Credit, 4 semester hours.



HEALTH, PHYSICAL EDUCATION AND RECREATION*Chairman:* TOMMY THOMPSON

ELLEN BRYAN
SUSAN CHRISTIAN
ED CRAIN
DANNY DAVIS
HAROLD ELLEN
JOHN HASKINS
DON KENNEY

DAWN LANGLEY
RAY PENNINGTON
LINDA PITTS
LARRY RODGERS
MIKE SCHAEFFER
P.J. SMITH

The purposes of the Department of Health, Physical Education and Recreation are: (1) to provide a comprehensive academic program in health, physical education, and recreation for students who plan to pursue one of these fields as a profession; (2) to provide professional preparation for prospective teachers in the area of physical education; (3) to provide a service program which will afford all students the opportunity to learn and participate in a wide range of activities which will benefit them now and in the future; (4) to provide competition for all interested students through a comprehensive program of intramural athletics in both team and individual sports; and (5) to provide recreational activities that will enable students and faculty to enjoy their leisure time in a program that will benefit them physically, mentally, and socially.

DEGREES OFFERED

Bachelor of Science Degree in Health, Physical Education, and Recreation

Bachelor of Science Degree in Health, Physical Education, and Recreation: Recreation Management/Administration

Bachelor of Science Degree in Physical Education with Certification by the State for Teaching in the Public Schools

SPECIAL CONCENTRATION

Curriculum Leading to Athletic Training N.A.T.A. National Certification

MINORS OFFERED

Minor in Physical Education
Minor in Athletic Coaching

Minor in Health Education
Minor in Recreation

Requirements for a Bachelor of Science Degree in Health, Physical Education, and Recreation (Non-Certification)

	Sem. Hrs.
Orientation	1
Basic Studies Requirements	50
Major Requirements:	
HED 109; 311; 315; 328; 418	
PED 107; 134 or 140; 138; 230; 231; 236; 173 or 240; 241; 316;	
319; 325; 348; 349; 412; 415; 424; four (4) 1-hr. coaching	
courses	49
Electives	28
Total	128

Requirements for a Bachelor of Science Degree in Health, Physical Education, and Recreation: Recreation Management/Administration

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements	50
Major Requirements:	
ART 108 or 306; CMA 209 or 210; BIO 210; PSY 225	
HED 106; 109; 315	
REC 300; 320; 327; 425; 450	
PED 101; 104; 106; 107; 134 or 140; 138; 230; 231; 172, 173 or 240;	
316; 319; 349; 412; 415	
Four (4) 1-hr. coaching courses	
Seven (7) of the following 1-hr. PE activity courses: PED 130, 131, 132,	
133, 135, 137, 139, 141, 145, 146, 179, 180, or 231	69
Electives	8
Total	128

Requirements for a Bachelor of Science Degree in Physical Education with Certification by the State for Teaching in the Public Schools (see p. 77 for Teacher Education Requirements)

	Sem. Hrs.
Orientation	1
Basic Studies Requirements	50
Major Requirements:	
HED 109;	
PED 101; 104; 106; 107; 138; 236; 241; 316; 319; 325; 348;	
349; 412; 415; 424; and two (2) 1-hr. coaching courses or	
one (1) 1-hr. coaching course and HED 328	34
Professional Education Requirements:	
EDN 202; 227; 308; 419; 430; 448;	
PED 400; 401	25
Academic Concentration (all PE certification majors are required by	
the State to take an academic concentration)	18-23
Total	128-133

Curriculum Guidelines Leading to N.A.T.A. Athletic Training Certification

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements (NOTE: PSY 100 and BIO 100 are required in Basic Studies)	50
Major	45
Athletic Training Curriculum requirements: (BIO 100); (PSY 100); HED 109, 315, 328; PED 105, 106, 205, 305, 348, 349, 405, 412, 424.	32
Total	128

Additional Requirements in Athletic Training Curriculum:

1. Each student must spend a minimum of 1500 clock hours gaining practical experience under the supervision of a N.A.T.A. certified athletic trainer. Thirteen-hundred (1300) hours must be obtained in a traditional setting (i.e., high school, college, or professional) and no more than 200 hours can be earned in a nontraditional setting (e.g., clinic, hospital). The student can earn these hours over a period of at least two (2) years and not more than five (5) years.
2. Each student must earn at least an overall 2.5 GPA in the five (5) specific sports medicine/athletic training courses listed above (i.e., PED 105, 106, 205, 305, 405).

Requirements for a Minor in Physical Education

HED 109, 315, PED 107, 134 or 140, 230 or 231, 236, 240, 241, 319, 325, 415, two 1-hr. coaching courses	23
Total	23

Requirements for a Minor in Recreation

HED 109 PED 134 or 140; 230; 231; REC 300, 320, 327, 425; Four (4) 1-hour Coaching Courses Five (5) 1-hour PE activity courses chosen from the following list: PED 130, 131, 132, 133, 135, 137, 139, 141, 145, 146, 179, 180, or 231.	24
Total	24

Requirements for a Minor in Health Education

HED 109, 311, 315, 418; BIO 103; SOC 373, 377	21
Total	21

Requirements for a Minor in Athletic Coaching

HED 315; PED 230, 231, 326, 348, 349, 412, 415, and four (4) 1-hr. coaching courses	22
Total	22

COURSES

HEALTH EDUCATION (HED)

106. Cardiopulmonary Resuscitation (CPR)

A certified course in cardiopulmonary resuscitation (CPR) that includes adult and infants CPR and airway obstruction technique. Half-semester (eight-week) course. Fall, Spring. Credit, 1 semester hour.

109. Basic Concepts in Health, Safety, and First Aid

Emphasis on personal hygiene and the student's obligation to serve society through the promotion of individual, family, and public health; fundamental and practical application of administering the techniques of first aid and safety using the approved Red Cross First Aid course. Fall, Spring. Credit, 3 semester hours.

310. Teaching Health and Safety in the Elementary School

The principles, practices, and procedures in health and safety education for grades K-6. Fall, Spring. Credit, 3 semester hours.

311. Health Education Activities for Grades 7-12

The principles, practices, and procedures in health education for grades 7-12. Fall, Spring. Credit, 3 semester hours.

315. Prevention and Care of Athletic Injuries

Emphasizes training in the prevention, evaluation and care of athletic injuries. Fall, Spring. Credit, 3 semester hours.

328. Practicum in Athletic Training

Practical application in the management and treatment of athletic injuries. Fall, Spring. Credit, 1 semester hour.

418. Physical Education Activities for Exceptional Children

Designed especially for teachers of exceptional children; practical application of physical education activities appropriate for varying age, grade, and handicapped/adaptive levels. Fall, Spring. Credit, 3 semester hours.

PHYSICAL EDUCATION (PED)

101. Wellness and Fitness

Basic, practical concepts concerning health, disease, fitness, exercise, obesity, etc., will be covered as related to personal wellness and fitness. Fall, Spring. Credit, 1 semester hour. Half-semester eight-week course.

104. Physical Education Activities for the Adaptive Child

Designed especially for teachers of exceptional children; practical application of physical education activities, equipment, and modification of facilities for adaptive children; age, grade, and handicap levels will be considered. Half-semester (eight-week) course. Fall, Spring. Credit, 1 semester hour.

105. Introduction to Sports Medicine/Athletic Training

An introductory course for potential trainers in their first year of clinical experience in athletic training/sports medicine; topics include instruction on maintaining a properly designed training room and training program (e.g., policies, procedures, legal issues). Fall. Credit, 3 semester hours.

106. Nutrition

Designed to investigate topics in nutrition which are most relevant to physical activity and sports participation. Along with general nutrition information, topics will include the effects foods have on physical performance, eating disorders, and proper bodyfat control. Half-semester (eight-week) course. Fall, Spring. Credit, 1 semester hours.

107. Computer Technology in Physical Education and Recreation

Basic and thorough on-task development of computer hardware, terminals, operations, software, peripheral systems, recorders, printers, etc. Instruction methods as well as computer-assisted-instruction will be discussed and developed within the discipline. Fall, Spring. Credit, 1 semester hour. Half-semester eight-week course.

130. Fitness Walking

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

131. Archery

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

132. Badminton

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

133. Golf

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

134. Beginning Swimming

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

135. Tennis

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

137. Bowling

Half-semester (8-week) course. \$15 fee. Fall, Spring. Credit, 1 semester hour.

138. Rhythms and Dance

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

139. Racquetball

Half-semester (8-week). Fall, Spring. Credit, 1 semester hour.

140. Intermediate Swimming

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

141. Physical Conditioning

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

145. Volleyball

Half-semester (8-week) course. Fall, Credit, 1 semester hour.

146. Weight Training

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

150. Varsity Baseball

Athletes only; P/F grade only. Spring. Credit, 1 semester hour.

151. Varsity Men's Basketball

Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.

152. Varsity Cross Country

Athletes only; P/F grade only Fall. Credit, 1 semester hour.

- 153. Varsity Golf**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 154. Varsity Soccer**
Athletes only; P/F grade only. Fall. Credit, 1 semester hour.
- 156. Varsity Men's Tennis**
Athletes only; P/F grade only. Fall, Spring. Credit, 1 semester hour.
- 157. Varsity Track and Field**
Athletes only; P/F grade only. Spring. Credit, 1 semester hour.
- 158. Varsity Wrestling**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 159. Varsity Cheerleading**
Squad members only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 160. Varsity Women's Basketball**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 161. Varsity Women's Tennis**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 162. Varsity Volleyball**
Athletes only; P/F grade only. Fall. Credit, 1 semester hour.
- 163. Varsity Softball**
Athletes only; P/F grade only. Spring. Credit, 1 semester hour.
- 172. Lifeguard Training**
Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 173. Water Safety Instructor's (WSI) Course**
Instructor's course in teaching swimming and lifesaving techniques leading to Red Cross certification. Red Cross prerequisites are Lifeguard Training (PED 172) and current First Aid/CPR certification card. Fall or Spring. Credit, 2 semester hours.
- 177. Advanced Physical Conditioning**
Aimed at varsity athletes. Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 178. Advanced Weight Training**
Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 179. Aerobic Dance**
Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 180. The Art of Self Defense (MSC 180)**
Half-semester (8-week) course. Fall. Credit, 1 semester hour.
- 205. Assessment of Athletic Injuries**
Designed for students seeking N.A.T.A. certification; a course in athletic injury evaluation and identifying injury risk factors; topics also include anatomical, physiological, and psychological response to injury, splinting, bracing, and casting; evaluation of each body part will be covered along with associated injuries. Fall. Credit, 3 semester hours.

230. Officiating Sports I

An overview of the rules and mechanics of officiating football, soccer, volleyball, and wrestling as published by the respective National Alliance Rulebook. Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

231. Officiating Sports II

An overview of the rules and mechanics of officiating basketball, baseball, and softball as published by the respective National Alliance's Rule-book. Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

236. Foundations of Health and Physical Education

A study of the relationships and contributions of health and physical education to general education; historical and philosophical backgrounds, basic biological, physiological, and sociological foundations of the modern program. Fall, Spring. Credit, 3 semester hour.

240. Teaching Swimming

Methods, materials, techniques, and skills of teaching swimming. Half-semester (eight-week) course. Fall, Spring. Credit, 1 semester hour.

241. Gymnastic Skills

Fundamental skill development in stunts, tumbling, and gymnastics. Fall and Spring. Credit, 1 semester hour. Half-semester eight-week course.

305. Treatment of Athletic Injuries

Designed for students seeking N.A.T.A. certification; course covers the physical basis and physiological effects of agents and modalities commonly used in the treatment of athletic injuries; emphasis will be on establishing a foundation for selecting a treatment protocol for an injury. Spring. Credit, 3 semester hours.

312. Sports in Contemporary Society (SOC 312)

A study of sports from a sociocultural perspective, including the relationship of sports to other social institutions, stratification within sports, and changing conceptions of leisure and sports. The popular literature on sports will be examined. Spring. Credit, 3 semester hours.

316. Physical Education Activities for Grades K-6

A study of the materials and movement activities of physical education in grades K-6 as it relates to rhythms, fitness, group play, and other physical activities appropriate to these age levels. Fall, Spring. Credit, 3 semester hours.

319. Physical Education Activities for Grades 7-12

A study of the materials and movement activities of physical education in grades 7-12, as it relates to rhythms, fitness, group play, and other physical activities appropriate to these age levels. Fall, Spring. Credit, 3 semester hours.

325. Practicum in Physical Education

Practical experience in teaching physical education activities. Students is assigned to a member of the physical education faculty. Fall, Spring. Credit, 1 semester hour.

326. Practicum in Athletic Coaching

Practical field experience in coaching athletic teams. Student is assigned to either a member of the University coaching staff or a junior or senior high school coaching staff as an assistant. Fall, Spring. Credit, 1 semester hour.

348. Anatomy and Kinesiology

An analytical, practical study of the structure of the human body and kinetic body movements in physical education and sports. Also, biomechanical analysis of human movement. Fall. Credit, 3 semester hours.

349. Physiology

An analytical, practical study of the physiological systems of the body. Spring. Credit, 3 semester hours.

350. Coaching Football*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

351. Coaching Basketball (Men or Women)*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

352. Coaching Track and Field*

A study of fundamentals, individual techniques, conditioning, maintaining facilities, and staging events. Spring. Credit, 1 semester hour.

353. Coaching Baseball*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Spring. Credit, 1 semester hour.

354. Coaching Wrestling*

A study of fundamentals, moves, strategies, and conditioning. Spring. Credit, 1 semester hour.

355. Coaching Soccer*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

356. Coaching Softball*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Spring. Credit, 1 semester hour.

364. Coaching Volleyball*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

366. Coaching Tennis*

A study of fundamentals, individual techniques, conditioning, drills, and conducting matches. Spring. Credit, 1 semester hour.

*Half-semester (8-week) courses.

400. Teaching Physical Education in Grades K-6

Purposes, methods, materials, techniques, and evaluation procedures in the teaching of physical education in K-6. Preparation of teaching plans and materials. Fall, Spring. Credit, 3 semester hours.

401. Teaching Physical Education in Grades 7-12

Purposes, methods, materials, techniques, and evaluation procedures in the teaching of physical education in grades 7-12. Preparation of teaching plans and materials. Fall, Spring. Credit, 3 semester hours.

405. Rehabilitation of Athletic Injuries

Designed for students seeking N.A.T.A. certification; course covers the principles of rehabilitation and its psychological effects; assessment of several aspects of the student/athlete's rehabilitation; hands-on practice with equipment; the basics of procedures, criteria, and modalities for returning a student/athlete to competition are covered. Spring. Credit, 3 semester hours.

412. Exercise Physiology

An analytical, practical study of how exercise affects the various physiological systems of the human body. Spring. Credit, 3 semester hours.

415. Organization and Administration of Physical Education and Recreation

A study of the organization and administration of physical education and recreation with particular reference to management, logistics, legal issues, etc. Fall. Spring. Credit, 3 semester hours.

424. Tests and Measurement in Physical Education

An analysis of the methods of testing and evaluating in physical education; also an overview of statistics and data interpretation. Fall, Spring. Credit, 3 semester hours.

*All coaching courses are half-semester (8-week) courses.

RECREATION (REC)**300. Introduction to Community Recreation**

An introduction to the basic concepts of organized recreation including its philosophy, history, organizational patterns, programs, facilities, and leadership. Fall. Credit, 3 semester hours.

320. Recreation Leadership and Supervision

An overview of practices, methods, and the processes of staff development in leisure service including an analysis of varied leadership functions and methods. Fall. Credit, 3 semester hours.

327. Practicum in Recreation

Practical field experience in an off-campus setting including city and county public recreation agencies. Fall, Spring. Credit, 1 semester hours.

425. Leisure Activities for Middle and Older Adulthood

The study of the physical, social, and emotional characteristics, needs, and interests of middle and older adulthood related to fitness and leisure activities utilizing a theoretical and practical approach. Spring. Credit, 3 semester hours.

450. Internship in Recreation Management/Administration

Prerequisite: Senior standing.

This course is coordinated by a University faculty member of the Department of HPER. The student will be under the supervision of an experienced recreation administrator for experiences related to the operation of a recreation program. The assignment will be within a municipal, county, state, or private agency which has as one of its primary functions that of providing recreation programs. Plans must be made in advance with the faculty advisor and approved by the Department Chairperson. Fall, Spring. Credit, 6 semester hours.

HISTORY

Chairman: DAVID K. ELIADES

ROBERT W. BROWN*
LOREN L. BUTLER, II
JOHN CHAY

BRUCE J. DeHART
KATHLEEN C. HILTON
JEROME A. McDUFFIE
WILLIAM P. TURNER

*Social Studies Education Coordinator

History is a liberating discipline. Through the study of the political, social, and cultural aspects of modern society and the rise and development of major civilizations, an individual is able to expand his or her insights into the human experience and achievement. The study of history enables the individual to understand the major issues which confront society and make possible a more reasoned and intelligent response to these problems.

The Department offers preparation to individuals intent upon almost every career and profession. While the Department offers a sound foundation for students who wish to teach history and other social studies, it also prepares students to continue with graduate or special work in history. Courses offered by the Department likewise provide a background for students who wish to study law, enter government service, or obtain a background for other professions.

Programs of study offered by the Department of History include a major and a minor in History, a certification program in Secondary Social Studies Education, a 6-9 Social Studies program in Middle Grades certification candidates, and an Academic Concentration in history for prospective teachers.

History majors will be assigned an advisor whose responsibility it is to help students plan their program. History majors must have the approval of their advisor to register for advanced history courses.

While the History Department does not require a foreign language, students planning graduate study in history should acquire a reading knowledge of one modern foreign language and take History 451 (Senior Seminar).

Requirements for a Bachelor of Arts Degree in History

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	36
Basic History (100 and 200 level courses)	(12)
Four courses from HST 101, 102, 126, 127, 210, and 250	

Advanced History (300 and 400 level courses)	(24)
Option 1	
Two courses each from the American and Euro- pean areas; one course from the Latin American, Canadian, and non-Western area; HST 435 or HST 451; and two electives.	
Option 2	
Approval of Contract	
HST 435 and HST 451; six approved electives.	
Electives	41
Total	128

Requirements for a Bachelor of Arts in History: Secondary Social Studies Education

The Department of History offers a program of study that prepares students for certification by the North Carolina State Department of Public Instruction as teachers of the Social Studies in grades 9-12. This program has four major components: Basic Studies, the History major, a collateral requirement in the Social Studies, and Professional Education coursework. Certification candidates must complete satisfactorily the Basic Studies requirements of the University and the requirements for a B.A. in History established by the Department. The History major for certification candidates, although identical with the major followed by non-certification History majors in structure and the number of hours required, requires the prospective teacher to take courses that specifically prepare him/her to teach History in a secondary school setting. Accordingly, the History major for certification candidates identifies certain courses as required and limits the number of courses from which the student may choose his/her electives. Certification candidates must also satisfy the Social Studies requirement, a literature requirement, the Professional Education requirements needed for certification, and the competency requirements established by the State Board of Education. Additionally, students seeking admission to this program must meet the criteria listed on pages 77-79 for admission to the Teacher Education program and for admission to the Professional Semester. Students planning to earn a Bachelor of Arts in History: Secondary Social Studies Education should, therefore, be aware that this program requires preparation in addition to that required for the Bachelor of Arts in History without certification. Except for courses listed as professional credits for teacher certification, the additional courses required in the Secondary Social Studies Education program, when overlap or duplication occurs, may also satisfy the Basic Studies requirements of the University. Students seeking Secondary Social Studies certification must meet with the Secondary Social Studies Coordinator in the History Department before registering for any courses.

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Certification candidates are required to take six semester hours in Literature; choose from the following: American Literature (CMA 220, 221); or English Literature (CMA 246); or World Literature (CMA 205, 206); or Introduction to Literature (CMA 203)	

History Requirements	30-36*
Basic History (100 and 200 level courses)	(12)
HST 101, 102, 127, and 250	
Advanced History (300 and 400 level courses)	(24)
Six semester hours from HST 305, 306, 310, 314, 315, 316, 341, 360, 410, and 413.	
Six semester hours from HST 321, 323, 327, 329, 332, 421, 427, 432, and 433.	
Three semester hours from HST 344, 351, 372, 386, and 394.	
HST 435 or HST 451	
Guided Electives: HST 317 and one additional advanced history course from those listed above (excluding HST 435 and 451).	
Social Studies Requirement	15-27**
ECN 201; GGY 101 or 102 or 200; PLS 100 or 101; SOC 101 or 201; SOC 105; SSE 300 and 365.	
Six additional semester hours in one of the following fields: economics, geography, political science, or sociology. Courses listed as directed research, field work, independent study, and internship cannot be used to satisfy this requirement.	
Professional Education	25
EDN 202, 227, 308, 419, 430, 445, and 448; SSE 400	
Electives	7-0
<hr/>	
Total	128-139

*Six semester hours of history can be counted under Basic Studies.
**Twelve semester hours of social studies can be counted under Basic Studies.

ACADEMIC CONCENTRATION IN HISTORY

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the History Department offers an Academic Concentration in History. This Academic Concentration is available to other students, regardless of major. This Concentration of 27 semester hours offers the prospective teacher both breadth and depth of study. The required Core Courses (15 semester hours) in American History, North Carolina History, Modern European History in a Global Context, and Non-Western History provide a solid foundation of knowledge. The Elective Courses (12 semester hours) provide each student with the opportunity to select advanced History courses in areas of personal or professional interest. Six semester hours of this Academic Concentration count toward the University’s Basic Study requirements. Students seeking certification to teach in the public schools of North Carolina are encouraged to select courses dealing with modern American, modern European, or modern world history.

Academic Concentration in History (27 hours)

- A. Required Core Courses (15 sem hrs):
 - HST 101 3 sem hrs
 - HST 102 3 sem hrs
 - HST 127 3 sem hrs
 - HST 250 3 sem hrs
 - HST 317 3 sem hrs

B. Elective Courses (12 sem hrs):

The student will choose, with the consent of his/her advisor, four (4) courses from the following: HST 305, 306, 310, 314, 315, 316, 321, 323, 327, 329, 332, 341, 344, 351, 360, 372, 386, 394, 410, 413, 421, 427, 432, and 433.

Students seeking Middle Grades (6-9) certification in the Social Studies must complete, in addition to the Academic Concentration, a program of collateral courses in the Social Sciences. For additional information concerning Middle Grades certification in the Social Studies, see below.

MIDDLE GRADES (6-9) CERTIFICATION IN SOCIAL STUDIES

The Social Studies Program (Grades 6-9) provides the prospective Middle Grades teacher with a balanced interdisciplinary program of study in History and the Social Sciences. Designed specifically to meet the guidelines established by the North Carolina Department of Public Instruction and to prepare certification candidates to teach the Social Studies subjects prescribed for the public schools of North Carolina, the comprehensive program features study in Anthropology, Economics, Geography, History, Political Science, and Sociology.

For students who select an Academic Concentration in History, the Middle Grades (6-9) certification program in the Social Studies consists of two parts: the Academic concentration in History and collateral courses in the Social Sciences that satisfy State Department of Public Instruction guidelines. Eighteen hours of the coursework required for this program may be applied to Pembroke State University's Basic Studies requirements.

1. Academic Concentration in History (27 hours):

A. Required Core Courses (15 sem hrs):

HST 101	3 sem hrs
HST 102	3 sem hrs
HST 127	3 sem hrs
HST 250	3 sem hrs
HST 317	3 sem hrs

B. Elective Courses (12 sem hrs):

The student will choose four (4) courses from the following. HST 305, 306, 310, 314, 315, 316, 321, 323, 327, 329, 332, 341, 344, 351, 360, 372, 386, 394, 410, 413, 421, 427, 432, and 433.

2. Collateral Courses in the Social Sciences (18 sem hrs):

ECN 201	3 sem hrs
PLS 101 or PLS 101	3 sem hrs
GGY 101, 102, or 200 (Select 2 GGY courses)	6 sem hrs
SOC 101 or SOC 201	3 sem hrs
SOC 105	3 sem hrs

Program Summary

1. Academic Concentration in History (Overlap with Basic Studies: 6 sem hrs)	27 sem hrs
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- | | |
|---|------------|
| 2. Collateral Courses in the Social Sciences) | 18 sem hrs |
| (Overlap with Basic Studies: 12 sem hrs) | |

Overlap with Basic Studies	45 sem hrs
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	-18 sem hrs
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Total Hours Beyond Basic Studies	27 sem hrs
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For students who select an Academic Concentration other than History and who seek Middle Grades (6-9) Certification in the Social Studies, the following program of study must be completed. Where overlap occurs, required courses may be counted for Basic Studies, the Academic Concentration, and Middle Grades (6-9) Certification in the Social Studies.

- | | |
|---|---------------|
| 1. Academic Concentration (must be in
Geography, Political Science, or
Sociology) | 24-27 sem hrs |
| 2. Collateral Courses in the Social Studies: | |
| SOC 101 or SOC 201 | 3 sem hrs |
| SOC 105 | 3 sem hrs |
| PLS 100 or PLS 101 | |
| (PLS 101 is recommended) | 3 sem hrs |
| HST 101, 102, 127, 250, and 317 | 15 sem hrs |
| GGY 101, 200, or 202 | |
| (Select 2 GGY courses) | 6 sem hrs |
| ECN 201 | 3 sem hrs |
| | 33 sem hrs |

Program Summary:

- | | |
|---|---------------|
| 1. Academic Concentration in a Social Science | 24-27 sem hrs |
| 2. Collateral Courses in the Social Sciences | 33 sem hrs |
| | 57-60 sem hrs |

Students seeking Middle Grades (6-9) Certification in the Social Studies may wish to consider combining it with 9-12 Social Studies certification. With careful planning and advisement, a student will be able to complete both programs, thereby enhancing his/her prospects for employment. Students interested in combining 6-9 Social Studies Certification with 9-12 certification in the Social Studies should see the Secondary Social Studies Coordinator in the History Department.

Students seeking Middle Grades (6-9) Certification in the Social Studies must consult with the Secondary Social Studies Coordinator in the History Department before registering for courses; checksheets for the Middle Grades Social Studies program are available from the Coordinator.

Requirements for a Minor in History

18 hours of history, of which 12 hours must be in 300 and 400 level courses.

COURSES

HISTORY (HST)

INTRODUCTORY COURSES

101. American Civilizations to 1877

A survey of the major political, economic, social, and cultural developments in the United States to 1877, with some attention to Canada. Fall, Spring. Credit, 3 semester hours.

102. American Civilizations since 1877

A survey of the major political, economic, social, and cultural developments in the United States since 1877, with some attention to Canada. Fall, Spring. Credit, 3 semester hours.

126. Early European Civilization through 1648

A survey of early European civilizations from their pre-Greek origins through 1648. Fall, Spring. Credit, 3 semester hours.

127. Modern European Civilization in a Global Context

A survey of major trends in European social, economic, cultural, and political history since 1648. Historical developments within modern Europe are viewed from a global perspective. Fall, Spring. Credit, 3 semester hours.

210. History of the American Indian (AIS 210)

A survey of the major Indian cultures of North America with emphasis on those located in the eastern half of the United States. Fall, Spring. Credit, 3 semester hours.

250. Modernization in Global Perspective

An examination of Latin American, African, and Asian civilizations as they undergo modernization. Fall. Credit, 3 semester hours.

U.S. HISTORY

305. United States History: The Colonial Period, 1607-1763

Prerequisite: Permission of instructor.

A study of the American colonial experience to the end of the French and Indian war. Fall. Credit, 3 semester hours.

306. United States History: The Revolutionary and Early National Period, 1763-1844

Prerequisite: Permission of instructor.

A study of the major political, economic, social, and cultural developments from 1763 to 1844. Spring. Credit, 3 semester hours.

310. United States History: Sectionalism, Civil War, and Reconstruction, 1844-1877

Prerequisite: Permission of instructor.

A thematic and topical study of American history from 1844 to 1877 with an emphasis on sectionalism, the Civil War, and Reconstruction. Spring. Credit, 3 semester hours.

314. United States History: The Gilded Age and Progressivism, 1877-1912

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions from 1877-1912. Fall, Spring. Credit, 3 semester hours.

315. United States History: War, Prosperity, and Depression, 1912-1945

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions from 1912-1945. Fall, Spring. Credit, 3 semester hours.

316. United States History: Recent America, 1945-Present

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions since 1945. Fall, Spring. Credit, 3 semester hours.

317. History of North Carolina

Prerequisite: Permission of instructor.

A study of selected phases of the development of North Carolina from its colonial beginnings to the present. Fall, Spring. Credit, 3 semester hours.

341. U.S. Economic History (ECN 341)

Prerequisite: Permission of instructor.

A thematic study of the economy of the United States from colonization to the present. Spring. Credit, 3 semester hours.

360. Afro-American History

Prerequisite: Permission of instructor.

A treatment of the Black people in American history from their African origins to the present. Fall. Credit, 3 semester hours.

378. The American West: Myth and Reality (CMA 378)

Prerequisite: Permission of instructor.

An interdisciplinary study of the American West through films, literature, and history. Although the course will emphasize the events of the period from 1850 to 1890, it will also attempt to show the influence of the West as a concept down to the present. Spring. Credit, 3 semester hours.

380. Women and the Development of U.S. Society

An in-depth study of U.S. women's history from the colonial period to 1870. Fall. Credit, 3 semester hours.

381. Women in U.S. History, 1870-Present

An exploration of significant aspects of continuity and change in U.S. women's education, health care, family roles, employment options, and political participation since 1870. Spring. Credit, 3 semester hours.

382. Childhood and Adolescence in Historical Perspective

An historical investigation of continuity and change in childhood as a life stage, with emphasis on patterns in the experience of growing up in the United States and the social construction of adolescence during the 20th Century. Spring. Credit, 3 semester hours.

406. U.S. Military History (MSC 421)

Prerequisite: Permission of instructor.

A survey of American military policies and operations from 1776 to the present with emphasis on World War II, the Cold War, Korea, and Viet Nam. Fall or Spring. Credit, 3 semester hours.

410. U.S. Social History

Prerequisite: Permission of instructor.

A study of the evolution of American society from colonial times to the 20th Century, including emphasis on patterns of daily life, social structure, and reform movements. Fall or Spring. Credit, 3 semester hours.

413. History of U.S. Foreign Policy

Prerequisite: Permission of instructor.

A study of the major trends, issues, and problems in U.S. foreign policy. Fall, Spring. Credit, 3 semester hours.

EUROPEAN HISTORY**321. Ancient History**

Prerequisite: Permission of instructor.

A survey of ancient history from the beginnings of civilization to A.D. 500. Fall. Credit, 3 semester hours.

323. The Middle Ages

Prerequisite: Permission of instructor.

A survey of the development of western cultures from the fall of Rome to the Renaissance. Fall. Credit, 3 semester hours.

324. Byzantine and Islamic History

Prerequisite: Permission of instructor.

A survey of the history of the Mediterranean world from A.D. 284 to A.D. 1453. Spring. Credit, 3 semester hours.

327. Early Modern Europe, 1500-1789

Prerequisite: Permission of instructor.

A survey of European history from the Renaissance to the French Revolution. Fall. Credit, 3 semester hours.

329. Revolution, Liberalism, and Nationalism in Europe, 1789-1914

Prerequisite: Permission of instructor.

A survey of European civilization from the French Revolution to the outbreak of the First World War. Spring. Credit, 3 semester hours.

332. Twentieth Century Europe

Prerequisite: Permission of instructor.

A study of conflict and cooperation in an era of global war, with emphasis on the interaction of democracy, communism, fascism, and imperialism. Spring. Credit, 3 semester hours.

337. Modern European Economic and Social History

A survey of the European economy and social classes from the birth of capitalism to the present. Fall, Spring. Credit, 3 semester hours.

417. Modern English History

Prerequisite: Permission of instructor.

A survey of the major developments in English history from the establishment of the Tudor Dynasty (1485) to the present. Fall, Spring. Credit, 3 semester hours.

421. History of Modern Germany, 1866 to the Present

Prerequisite: Permission of instructor.

An analysis of German history from the era of Bismarck to the present, with special emphasis on the unification of Germany, the two world wars, the Nazi Revolution, and the problem of a divided Germany. Fall, Spring. Credit, 3 semester hours.

427. European Intellectual History since 1400

Prerequisite: Permission of instructor.

A study of the main currents of European thought, with special emphasis on the Renaissance, Reformation, Enlightenment, Liberalism, and Socialism. Fall, Spring. Credit, 3 semester hours.

432. A History of Imperial Russia from 1682 to 1917

Prerequisite: Permission of instructor.

An examination of Russia's political, social, economic, and cultural development from the reign of Peter the Great to the fall of the Romanovs in February 1917. Fall, Spring. Credit, 3 semester hours.

433. History of Soviet Russia, 1917 to the Present

Prerequisite: Permission of instructor.

An examination of Soviet Russia's development from the 1917 revolution to the present day, with special emphasis on Leninism, Stalinism, and post-Stalinism. Fall, Spring. Credit, 3 semester hours.

LATIN AMERICAN, CANADIAN, AND NON-WESTERN HISTORY**344. History of the Modern Far East**

Prerequisite: Permission of instructor.

A history of China, Japan, and Korea, with special attention to the problems of modernization. Fall, Spring. Credit, 3 semester hours.

345. The United States and the Far East

Prerequisite: Permission of instructor.

A study of the major factors and the processes concerning American involvement in the Far East from the beginning of the Republic to the present; to include the nature of the international system in the Far East and changing American interest and policies in the region. Fall or Spring. Credit, 3 semester hours.

351. History of the Modern Middle East

Prerequisite: Permission of instructor.

A study of the major trends and issues in the Middle East in the modern world. Fall, Spring. Credit, 3 semester hours.

372. History of South Asia

A study of the Indian subcontinent with an emphasis on cultural, social, and economic aspects; the Moslem and Mogul eras; the British period; and events since 1945. Fall. Credit, 3 semester hours.

385. Indians of Latin America (AIS 324)

A study of the history, culture and contemporary achievements of the Indians residing south of the Rio Grande. Fall. Credit, 3 semester hours.

386. Latin America Since Independence

Prerequisite: Permission of instructor.

An examination of Latin America from Independence to the present. Emphasis will be placed on the historic antecedents of current events and Latin America's place in World affairs. Fall. Credit, 3 semester hours.

394. History of Canada

Prerequisite: Permission of instructor.

A study of Canada from the early explorations and settlements to the present with special emphasis on the French and British in Canada, the advance from self-government to Confederation, and the relations of Canada with the United States and the British Commonwealth. Fall, Spring. Credit, 3 semester hours.

COLLOQUIA AND SEMINARS**402. Colloquium: Selected Topics in American History**

Prerequisite: Permission of instructor.

An investigation into selected topics in American history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

426. Colloquium: Selected Topics in European History

Prerequisite: Permission of instructor.

An investigation into selected topics in European history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

440. Colloquium: Selected Topics in Non-Western History

An investigation into selected topics in Non-Western history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

451. Senior Seminar

Prerequisite: 2.0 QPA in history courses taken, and completion of 15 hours of advanced history courses.

A study of special problems in a selected area of history with emphasis on historiography, methods, research, and writing skills. Fall, Spring. Credit, 3 semester hours.

GENERAL AND SPECIAL COURSES**370. Introduction to Public History**

Introduction to Public History

Prerequisite: Permission of instructor.

An introduction to the operation and problems of historical agencies, problems of preservation and exhibition, archives management, historical editing and publishing, historical sites, and the techniques and processes of public history. Fall. Credit, 3 semester hours.

399. Directed Reading in History

Prerequisite: Permission of instructor, completion of all lower division history requirements, and six hours of advanced history.

Directed reading under the guidance of instructor. Fall, Spring. Summer. Credit, 1-3 semester hours.

435. Topics in History

This course will focus on one topic of general interest and explore it in detail; the topic will be announced in the schedule of courses. Possible topics include: Revolution in the Modern World; Hitler and Nazi Germany; and the American Civil War. This course may be taken only once for credit. Spring. Credit, 3 semester hours.

455. Historical Sites Study

Prerequisite: Permission of instructor.

A conducted tour of selected historical sites with an emphasis on a particular period or geographical area of history. Cannot be used to satisfy requirements for history major. Summer. Credit, 2-6 semester hours.

483. Workshop: Selected Topics in History

A workshop designed to assist pre-service and in-service teachers in expanding their conceptual understanding of a selected topic in history. Instruction will center on an indepth investigation of the announced topic; special attention will be given to the problem of relating the announced topic to the secondary Social Studies curriculum in North Carolina. Summer. Credit, 3 semester hours.

499. Independent Study in History

Prerequisite: Permission of the Department.

Directed reading and research under the guidance of the instructor in a specific area or problem in history. Scheduled only for senior history majors with the approval of the Chairman of the Department. Fall, Spring. Credit, 1-3 semester hours.

SOCIAL STUDIES EDUCATION (SSE)

The courses in Social Studies Education are designed to help prospective teachers to develop the competencies needed in the classroom. These courses should be taken only after the student has given careful consideration to career objectives. The Social Studies Education courses are not history courses, and they cannot be used to meet history requirements.

300. Introduction to Teaching Social Studies in the Secondary School

Required of history majors seeking certification

Prerequisite: EDN 227 and 15 semester hours in history and social studies with a 2.5 average.

An overview of the social studies in the secondary school, an introduction to past and present trends in the social studies curriculum, and early field experiences for prospective teachers of the social studies. Such early field experiences include a planned and supervised program of observation and participation in the social studies classroom that introduces the certification candidate to the secondary student and the school setting. Fall, Spring. Credit, 3 semester hours.

365. Social Studies for the Secondary Teacher

Required of history majors seeking certification

Prerequisite: Thirty semester hours in history and social studies or permission of the instructor and SSE 300.

An introduction for the certification candidate to the nature, scope, objectives, source materials, and methodologies of the social studies (anthropology, economics, geography, history, political science, and sociology). The student is required to review representative curriculum materials and to integrate principles, concepts, and methods characteristic of the social studies that are appropriate for the secondary curriculum. Fall, Spring. Credit, 3 semester hours.

400. Methods of Teaching Social Studies in the Secondary School (EDN 400)

Required of history majors seeking certification.

Prerequisite: SSE 300, 365 and 30 hours in history with a 2.5 quality point average. Materials and basic teaching strategies employed in teaching social studies in grades nine through twelve. Fall, Spring. Credit, 3 semester hours.

MATHEMATICS AND COMPUTER SCIENCE*Chairman:* GILBERT L. SAMPSON +

DONALD E. BEKEN
CAROL BREWER
JOSEPH W. GOLDSTON
WUU FANG JANG
OSCAR JONES
ROBERT LAMPHERE
FREDA LOCKLEAR

RAYMOND MCDANIEL
DAMON SCOTT
PHILLIP SLOAN
THOMAS STROMMER
CLIFFORD TREMBLAY
WILLIAM TRUMAN
ALAN YOST

+ Mathematics Education
Coordinator

Mathematics is a precise and demanding subject which has remained a central part of mankind's intellectual achievement for over three thousand years. Important not only in intellectual affairs but in practical matters as well, mathematics has assumed a greater and wider role in today's world with the development of the digital computer. The role of the computer has become and is increasingly more important in mankind's everyday and technological world. As such, computing has evolved into a science covering the study of languages, programming, and theoretical concepts. The Department offers courses covering both the intellectual and practical sides of mathematics, the ground between, and digital computing.

A student of the Department of Mathematics and Computer Science has the opportunity of earning a Bachelor of Science degree (B.S.) in either Mathematics or Computer Science or a Master of Arts in Education; Mathematics Education (M.A.Ed.). The Mathematics major also may choose to gain certification to teach mathematics at the secondary level, or to follow a track in computer science. The computer science major may also acquire concentrations in mathematics, physical science, or business. The Department offers minors in both mathematics and computer science and also cooperates with the Education Department in offering a concentration in mathematics for Middle Grades Education majors.

The Departmental faculty welcomes the opportunity to advise the major and non-major alike. Someone thinking of majoring in mathematics and computer science is especially urged to consult with the Department Chairman prior to registering for Basic Studies courses. All majors choose advisors and are urged to consult with them periodically in order to plan and carry out their program of study.

Most non-majors fulfill the Basic Studies requirements in mathematics by taking one of MAT 105, 106, 107 or 108. Well-prepared students may select MAT 109 or 221 for this purpose.

Requirements for a Bachelor of Science Degree in Mathematics: Major in Mathematics

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107 and 108, or MAT 109, or equivalent courses in secondary school; also MAT 220, 221, 222, 315, 316, 325, 431, and twelve additional semester hours of advanced mathematics	36-42
Electives	35-41
Total	128

Requirements for a Bachelor of Science Degree in Mathematics with Certification by the State to Teach Mathematics at the Secondary Level (see Teacher Education, p. 74, for Requirements.)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107** and 108**, or MAT 109***, or equivalent courses in secondary school; also MAT 220, 221, 222 315, 316, 325, 328, 402, 411, 431, CSC 202, and six additional semester hours of advanced mathematics	36-42
Professional Education Requirements	
EDN 202, 227, 308, 419, 430, 445, 448; MAT 250, 400	27
Electives	8-14
Total	128

Requirements for a Bachelor of Science Degree in Mathematics: Major in Computer Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107** and 108**, or MAT 109***, or equivalent. MAT 221*, 222*, 315, 328; CSC 155 or equivalent as determined by Placement Test; also CSC 215, 255, 275, 325, 355, 395, two courses, at least one 400 level, from CSC 365, 375, 385, 415, 425, 435, 445, 455, or 465; and three courses, at least one 400 level, from MAT 317, 322, 325, 327, 329, 330, 415, or 444	45-56
Electives	21-32
Total	128

*Students who plan a major in mathematics should consult with the Department Chairman prior to registering for Basic Studies courses.
**Counts toward six (6) hours of Basic Studies.
***Counts toward 4-6 hours of Basic Studies.

Requirements for a Bachelor of Science Degree in Computer Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	32-39
CSC 155 or equivalent as determined by Placement Test, CSC 215, 255, 275, 325, 355, 365, 375, 395; MAT 109*** or equivalent. MAT 221***, 222***, 315, 328.	
Four courses from one of the following categories:	12-14
Category I: Computer Theory	
Both: CSC 415, 435; two courses selected from CSC 425, 445, 465, MAT 327, PHY 356	
Category II: Computer Information Systems	
Both: CSC 385, 455; two courses selected from CSC 465, BUS 307, 308	
Category III: Computer Engineering	
CSC 200 and one of CSC 415 or 435; two courses from PHY 200, 201, 356, EGR 205	
Electives	24-33
Total	128

Requirements for an Academic Concentration in Mathematics

	Sem. Hrs.
MAT 107** and 108**, or MAT 109***, or equivalent courses in secondary school.	
MAT 220, 221, 222, 315, 328, 411	
CSC 202	23

Requirements for Certification in Mathematics for the B.S. in Middle Grades Education (6-9)

	Sem. Hrs.
Middle Grades Certification in Mathematics requires the Academic Concentration in Mathematics in addition to the following:	
MAT 106, 250, 300, 402	11

Requirements for a Minor in Mathematics

	Sem. Hrs.
MAT 221, 222, 315, 316; and three additional hours selected from advanced mathematics courses (300 or above)	18

Requirements for a Minor in Computer Science

	Sem. Hrs.
CSC 155 or equivalent as determined by Placement Test: CSC 215, 255, 275; one course from CSC 325 or 355; and at least one additional course from CSC 201, 325, 355, 365, 375, or 385	18

*Students who plan a major in Computer Science should consult with the Department Chairman prior to registering for Basic Studies courses.
**Counts toward six (6) hours of Basic Studies.
***Counts toward 4-6 hours of Basic Studies.

COURSES

MATHEMATICS (MAT)

104. Fundamentals of Mathematics

Development of basic skills in mathematics, emphasizing computational measurement and problem-solving skills. (Will not count toward graduation requirements). Fall, Spring. Credit, 3 semester hours.

105. Introduction to College Mathematics

Prerequisites: MAT 104 or appropriate score on the Mathematics Placement Examination. A study of the real number system and its applications. Introduction to sets, functions and algebraic concepts including simple equations, formulas, and graphing. Introduction to probability and statistics. Fall, Spring, Summer. Credit, 3 semester hours.

106. Foundational Concepts of Mathematics

Prerequisites: Appropriate score on Mathematics Placement.

A general concept course including such topics as sets, bases, modular arithmetic, and the development of real number system. Fall, Spring, and Summer. Credit, 3 semester hours.

107. College Algebra

A study of the real numbers, algebraic expressions and sets. First and second order equations, and first order inequalities and their graphs. Functions, exponents and logarithms. Fall, Spring, Summer. Credit, 3 semester hours.

108. Plane Trigonometry

Prerequisite: MAT 107.

Angular measure, solution of right triangles, trigonometric function values of any angle, fundamental trigonometric relations, graphs of the trigonometric functions, solution of oblique triangles, and logarithmic solution of triangles. Fall, Spring, Summer. Credit, 3 semester hours.

109. College Algebra and Trigonometry

Real and complex numbers, set, inequalities, functions and their graphs; polynomials, rational functions, and algebraic functions; exponential, logarithmic, and trigonometric functions. Analytic geometry. Fall, Spring. Credit, 4 semester hours.

118. Finite Mathematics

Prerequisite: MAT 107 or equivalent.

Set theory, symbolic logic, permutations and combinations, probability, conditional probability, matrices and systems of equations. Some applications to stochastic processes, Markov chains, linear programming, statistics. Fall, Spring, Summer. Credit, 3 semester hours.

201. Elements of Metric Geometry

Prerequisites: MAT 105, 106.

Designed to give the general student a complete overview of the measurement aspects of geometry from a Euclidean point of view. Topics include linear measurement, perimeter, area, volume, congruence, and similarity, symmetry, and transformations. Constructions using variety of approaches will receive particular emphasis. Fall, Summer. Credit, 3 semester hours.

210. Introduction to Statistics (SOC 210)

Recommended prerequisite: MAT 107.

Elementary statistical analysis using a computer-based statistics package and data. Measures of central tendency and variability; properties of the binomial, normal, and Poisson distributions; hypothesis testing and sampling; and regression analysis. A required one hour per week laboratory. Fall. Credit, 3 semester hours.

215. Calculus with Applications

Prerequisites: MAT 107 or MAT 109 or equivalent.

Required For: Biology Majors. Not open to Mathematics Majors.

A study of functions of one variable; derivatives, integrals and their applications to Biological Sciences and Business. Special attention will be given to exponential functions with respect to growth and decay applications. Topics of multivariant Calculus will also be included. Fall, Spring. Credit, 4 semester hours.

220. Point Set Theory

Prerequisite: MAT 107 or MAT 109 or equivalent.

Introduction to set theory, elementary concepts of the topology of the real line and the plane, elementary logic, and techniques of proof. Mathematics majors should take this course concurrently with Calculus I or Calculus II. Spring. Credit, 3 semester hours.

221. Calculus I

Prerequisites: MAT 107 and MAT 108, or MAT 109, or equivalent.

Study of functions of one variable, topics from analytic geometry, limits and continuity; differentiation of algebraic functions; curve sketching; various applications chosen from physics, economics, and optimization. Fall, Spring, Summer. Credit, 4 semester hours.

222. Calculus II

Prerequisite: MAT 221.

A study of integrals, the definite integral, the fundamental theorem of the calculus, applications of the definite integral. The derivative and integral of exponential, logarithmic, trigonometric and inverse trigonometric functions; and techniques of integration. Fall, Spring, Summer. Credit, 4 semester hours.

250. Introduction to Teaching Mathematics in the Secondary Schools

Prerequisites: EDN 227, MAT 221.

Designed to provide an overview of mathematics in the secondary school and early experiences for prospective mathematics teachers. These experiences include a planned program of observational and participatory experience in the mathematics classroom. Spring. Credit, 2 semester hours.

300. The Teaching of Mathematics in the Middle Grades (6-9)

Prerequisite: Junior Standing.

Required for: Mathematics concentration in The Middle Grades (6-9).

Presents modern techniques and methods of teaching mathematics in the middle grades (6-9). Laboratory work provides deeper understanding of mathematical concepts and experience with materials and methods appropriate for classroom use. As announced. Credit, 3 semester hours.

315. Linear Algebra I

Prerequisite: MAT 222.

An introduction to the theory of vector spaces, linear transformations, systems of linear equations, matrices, inverses, rank, determinants, inner products. Applications of matrices to problems involving systems of equations. Fall, Spring. Credit, 3 semester hours.

316. Intermediate Calculus

Prerequisite: MAT 222.

Selected topics from Calculus I and II from an advanced viewpoint. L'Hospital's rule, improper integrals, Taylor's theorem, infinite series. Multivariable calculus: limits, continuity, partial derivatives, extrema, iterated integrals, and applications. Fall, Spring. Credit, 4 semester hours.

317. Linear Algebra II

Prerequisite: MAT 315.

Eigenvalues and eigenvectors, similarity of matrices, reduction of matrices to diagonal form. Cayley-Hamilton theorem, minimum polynomial, Jordan canonical form. Hermitian, unitary, and normal matrices, orthonormal basis, Gram-Schmidt process. Simplification of quadratic forms and other applications. As announced. Credit, 3 semester hours.

322. Differential Equations

Prerequisite: MAT 316.

An introduction to ordinary differential equations including classification of solutions to differential equations, existence and uniqueness of solutions, power series methods, initial value problems, and applications. Spring. Credit, 3 semester hours.

325. Algebra I

Prerequisite: MAT 315.

Introduction to groups, integral domains, rings and fields, with further study of subgroups, cyclic groups, groups of permutations, isomorphisms and homomorphisms of groups, direct products, and factor groups. Spring. Credit, 3 semester hours.

326. Algebra II

Prerequisite: MAT 325.

Further topics in group theory; rings, integral domains, fields, ideals, quotient rings, homomorphisms, direct sums, polynomial rings, extension fields. Fall. Credit, 3 semester hours.

327. Numerical Analysis

Prerequisites: MAT 315, 316; CSC 200.

An introduction to the solution of mathematical problems by computational techniques, including both finite and iterative methods and error analysis. Spring. Credit, 3 semester hours.

328. Probability and Statistics I

Prerequisite: MAT 222.

Probability, sample spaces, counting techniques, random variables, discrete and continuous distribution functions, characteristics functions. Binomial, Poisson, and normal distributions. Central limit theorems. Fall. Credit, 3 semester hours.

329. Applied Mathematics

Prerequisite: MAT 315.

Introduction to mathematical modeling. Techniques and properties of discrete and continuous models. Case studies. Fall. Credit, 3 semester hours.

330. Probability and Statistics II

Prerequisites: MAT 316, 328.

An introduction to common theoretical distributions, central limit theorems, two dimensional random variables, sampling distributions, estimation, confidence intervals, hypothesis testing, regression theory and applications. Spring. Credit, 3 semester hours.

400. Methods of Teaching Mathematics in Secondary Schools (EDN 400)

Purposes, methods, materials, and evaluation procedures in teaching mathematics. Directed observation in public school mathematics classes. Preparation of teaching plans and materials. Accelerated. Spring. Credit, 3 semester hours.

402. A Historical Development of Mathematics

Prerequisites: MAT 222.

A study of the development of mathematics in its historical setting from its earliest beginnings to modern times. Note: This course may not be used as an Advanced Mathematics requirements for the Major in Mathematics. Spring. Credit, 3 semester hours.

411. College Geometry

Prerequisite or corequisite: MAT 315.

A study of the development of Euclidean geometry from the metric and synthetic approach and an introduction to non-Euclidean geometry. Fall. Credit, 3 semester hours.

431. Advanced Calculus I

Prerequisites: MAT 316, and MAT 220.

An introduction to modern mathematical analysis with careful attention to topics of elementary and intermediate calculus of one or more variables. Topics include convergence of sequences and series, mean value theorems, the Cauchy criterion, integrability. Fall. Credit, 3 semester hours.

432. Advanced Calculus II

Prerequisite: MAT 431.

A continuation of Advanced Calculus I including such topics as the total derivative of multivariable functions, transformations of R_n , representations of functions by series and integrals, and uniform convergence. Spring. Credit, 3 semester hours.

444. Complex Analysis

Prerequisite: MAT 316.

The complex numbers, analytic functions, conformal mappings, contour integration, Cauchy's theorem and integral formula. Taylor and Laurent expansions, residues, analytic continuation. Liouville's theorem. As announced. Credit, 3 semester hours.

448. Special Topics (Variable Title)

Prerequisites: Teaching certificate.

A study of special topics in mathematics or mathematics education. The selected topics will be an in-depth study of a content area or they will be selected over the breadth of a content area. As announced. Credit, 3 semester hours.

499. Independent Study

Offered for mathematics majors on approval of the Department Chairman. Credit, 1-3 semester hours.

COMPUTER SCIENCE (CSC)**100. Introduction to Computers**

The content of this course includes a discussion of computer hardware, computer software, the history of computing, and typical applications of computers. A significant amount of time is devoted to such applications as word processing, spreadsheets, data bases, and graphics. Additional topics for discussion include a brief introduction to computer languages, effects of computers on society and the individual, data communications, and artificial intelligence. Fall, Spring, Summer. Credit, 3 semester hours.

155. Foundations of Computing

Overview of the local computing environment. History of digital computers. Introduction to computer organization, data representation, and programming. Fall, Spring, Summer. Credit, 3 semester hours.

200. Introduction to Computer Programming—FORTRAN

Prerequisites: CSC 100, MAT 107, or permission of instructor.

A first course in programming using concepts of structural programming and algorithmic analysis with emphasis on scientific applications. Details of structured FORTRAN. As announced. Credit, 3 semester hours.

201. Introduction to Computer Programming—COBOL

Prerequisite: CSC 100 or permission of instructor.

A first course in programming using concepts of structured programming and algorithmic analysis with emphasis on data processing applications. Details of the COBOL language. As announced. Credit, 3 semester hours.

202. Microcomputer Programming

Prerequisites: CSC 100, or CSC 155, or permission of instructor.

A first course in microcomputer programming and operating systems, emphasizing both numeric and string processing, and structured programming. Details of the PASCAL and BASIC languages, using both IBM compatible and Apple microcomputers. Features of these two systems will also be compared. Fall, Spring, Summer. Credit, 3 semester hours.

215. Discrete Structures

Prerequisite: MAT 109 or equivalent.

Discrete structures with applications to Computer Science. Boolean algebra. Sets. Functions and relations. Propositional logic. Induction. Permutations and combinations. Finite state machines. Trees and graphs. Vectors and matrices. Fall, Spring. Credit, 3 semester hours.

255. Programming and Algorithms I

Prerequisite: CSC 155.

Introduction to programming. Pascal language. Representation of data, constants, and variables. Arithmetic and logical expressions. Simple I/O. Arrays. Subprograms. Searching, sorting, and merging. Techniques of problem solving. Stepwise refinement. Principles of documentation. Fall, Spring, Summer. Credit, 3 semester hours.

275. Programming and Algorithms II

Prerequisites: CSC 255 and MAT 109.

Principles of good programming style. Control flow. Debugging and testing. String processing. Further methods of searching and sorting. Recursion. Stacks and linked lists. Records and built-up data types. Fall, Spring. Credit, 3 semester hours.

325. Fundamentals of Computer Systems

Prerequisites: CSC 215 and CSC 275.

Computer structure, machine language, assembly language, and addressing modes. File structures and I/O. Memory management. Assemblers, linkers, and loaders. Fall. Credit, 3 semester hours.

355. Data Structures

Prerequisites: CSC 215 and CSC 275.

Design of algorithms. Graphs, paths, and trees. Analysis of algorithms for internal and external sorting, searching, and merging. Hashing. Algorithms for dynamic storage allocation. Fall, Spring. Credit, 3 semester hours.

365. Introduction to Computer Architecture

Prerequisite: CSC 325.

Basic logic design and sequential circuits. Digital storage and access. Study of a processor. Microprogramming. Alternate architectures. Spring. Credit, 3 semester hours.

375. Programming Languages

Prerequisite: CSC 325 and CSC 355.

An introduction to programming languages design and implementation. Survey of several major languages and their features. An emphasis on implementation details. Spring. Credit, 3 semester hours.

385. File Processing with COBOL

Prerequisites: CSC 325, CSC 355, and MAT 222.

File processing environment. Sequential access. External sort and merge algorithms. Random access methods. Trees, lists, inverted lists, multilists. Indexed sequential and hierarchical structures. COBOL language. Spring. Credit, 3 semester hours.

395. Introduction to Finite Automata

Prerequisite: CSC 325, CSC 355, and MAT 222.

Introduction to formal language theory, finite automata, regular expressions and regular grammars. Push-down automata and context-free grammars. Turing machines and context-sensitive grammars. Fall. Credit, 3 semester hours.

405. Current Topics in Computers in Education

Prerequisite: Permission of instructor.

Use of computers in Education. Discussion, use, and evaluation of computer software and hardware for the classroom. Applications to curriculum development. The course is designed as a service course for teachers and can be used only as a guided elective. It is not to be counted for the mathematics concentration at the graduate level. The course will include a required lab. As announced. Credit, 3 semester hours.

415. Translators and Compilers

Prerequisites: CSC 375, CSC 395.

Interpreters, assemblers, and compilers. Grammar, languages, syntax, semantics, and BNF. Parsing and symbol tables. One and two pass assemblers. Design of interpreters and compilers. Large programming project. Spring. Credit, 4 semester hours.

425. Advanced Software Project

Prerequisites: CSC 325, CSC 355, and MAT 222.

An assigned, individual, in-depth programming project including design, documentation, and testing. As announced. Credit, 3 semester hours.

435. Operating Systems

Prerequisites: CSC 365 and MAT 222.

I/O and interrupt structure, procedure activation. Monitors and kernels. System evaluation with elementary queuing, modelling, and statistical analysis. Memory management with paging, virtual memory, and multiprogramming. Process management, semaphores, deadlocks, and schedulers. Large programming project. Fall. Credit, 4 semester hours.

445. Theory of Computation and Algorithms

Prerequisites: CSC 325, CSC 355, and MAT 222.

Analysis of algorithms. Advanced data structures. Time and space complexity. Turing machines. Proof of correctness. An announced. Credit, 3 semester hours.

455. Systems Analysis and Design Project

Prerequisites: CSC 385.

Formal models of structured design and programming. Information hiding. Iterative enhancement. Structure of programming teams. Program libraries, walk-throughs and documentation. Development of a large software project by student teams. Spring. Credit, 4 semester hours.

465. Database Management Systems

Prerequisites: CSC 385.

Goals of DBMS including data independence, relationships, logical and physical organizations, schema, and subschema. Hierarchical, network and relational models. Examples of implementation. Data descriptor languages. Query facilities. File organization. Index organization. Data integrity and reliability. As announced. Credit, 3 semester hours.

495. Seminar in Computer Science

Prerequisites: CSC 325, CSC 355, and MAT 222; permission of instructor. Advanced software topics. As announced. Credit, 3 semester hours.

496. Seminar in Computer Science

Prerequisites: CSC 325, CSC 355, and MAT 222; permission of instructor. Advanced hardware topics. As announced. Credit, 3 semester hours.

499. Independent Study

Open to seniors in Computer Science with a quality point average of 3.0 in the major and with approval of the Department Chairman. Required written and oral reports. As announced. Credit, 1-3 semester hours.

In addition to courses of study listed in this section, the Department of Mathematics and Computer Science offers a Master of Arts in Mathematics Education. See the graduate section of this catalog for a description of this program.

MUSIC

Chairman: ROBERT L. ROMINE

LARRY D. ARNOLD
ROBERT M. DAWLEY*
WILLIAM F. FRITZ

ELIZABETH W. MAISONPIERRE
HAROLD C. SLAGLE
GEORGE R. WALTER

*Music Education Coordinator

The Department of Music is a full member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The purposes of the Department of Music are: to provide comprehensive training for teachers of vocal and instrumental music; to provide a well-rounded course of study for those students pursuing a professional career in music or continuing in graduate work; to provide experience which the music student and the general university student will find rewarding in developing their cultural sensitivity; and to provide public programs and concerts to enrich the cultural life of the University and the community.

The Department of Music offers degree programs in music education and performance. In addition, minors exist in Music, Sacred Music, and Jazz Studies.

Requirements for a Bachelor of Arts in Music with a Concentration in Performance

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Core Music Requirements	
MUS 100 or 141, 101 or 142, 113*, 114, 115, 159, 160, 181 or 159, 182 or 160, 193, 200 or 241, 201 or 242, 214, 215, 259, 260, 281 or 259, 282 or 260, 295*, 296*, 300 or 341, 301 or 342, 329, 334, 359, 360, 395, 401 or 441, 404, 459	41
Performance Concentration Requirements	
MUS 159***, 160, 236, 237, 259, 260, 332, 359, 360, 373, 402 or 442, 432, 445, 459, 460;	
**100-402, 141-442, 165-466, 156-457, 162-463, 335-435.	25
Music Electives	8
General Electives	3
Total	128

*Courses are in Basic Studies.

**4 hours of ensemble other than major ensemble are to be selected.

***16 hours of applied credit must be completed in the major performance area. Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Arts in Music with a Concentration in Music Industry

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Core Music Requirements:	
MUS 101 or 141, 101 or 141, 113*, 114, 115, 159, 160, 181 or 159, 182 or 160, 193, 300 or 241, 201 or 242, 214, 215, 259, 260, 281 or 259, 282 or 260, 295*, 296*, 300 or 341, 301 or 342, 329, 334, 359, 360, 395, 401 or 441, 404, 459	39
Music Industry Concentration Requirements	
MUS 171, 172, 191, 205, 271, 400, 420, 433, 499, BUS 227, 228, 307, 312, 415, ECN 201*.	35
Electives	3
Total	128

*Courses are in Basic Studies.

Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Science Degree in Music Education with a Vocal Concentration and with Certification by the State to Teach Music in the Public Schools (see p. 76 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
MUS 100, 101, 113, 114, 115, 159, 160, 171, 172, 181 or 159, 182 or 160, 191, 193, 200, 201, 205, 214, 215, 259, or 260, 281 or 259, 282 or 260, 271, 295, 296, 300, 301, 329, 334, 395, 359, 360, 401, 404, 405, and 459	56-57
Professional Education Requirements:	
EDN 202, 227, 308, 419, 430, 445, 448; and MUS 400	25
Music Elective	1
Total	133-134

Requirements for a Bachelor of Science Degree in Music Education with an Instrumental Concentration and with Certification by the State to Teach Music in the Public Schools (see p. 76 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
MUS 113, 114, 115, 141, 142, 159, 160, 171, 172, 181 or 159, 182 or 160, 191, 193, 205, 214, 215, 241, 242, 259, 260, 271, 281 or 259, 282 or 260, 295, 296, 329, 334, 395, 341, 342, 359, 360, 404, 420, 441 and 459	57-58
Professional Education Requirements	
EDN 202, 227, 308, 419, 430, 445, 448; MUS 400	25
Electives	0
Total	133-134

*Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses. Teacher certification requirements of 6 hours of literature and 6 hours of history would each be satisfied in part by Music 296 and Music 395.

Requirements for a Bachelor of Science Degree in Music Education with a Keyboard Concentration and with Certification by the State to Teach Music in the Public Schools (Vocal Orientation).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements:	
MUS 100, 101, 113, 114, 115, 159 (20 or 21), 160 (20 or 21), 171, 172, 191, 193, 200, 201, 205, 214, 215, 259 (20 or 21), 260 (20 or 21), 271, 295, 296, 329, 334, 335, 336, 359 (20 or 21), 360 (20 or 21), 395, 404, 405, 425, 435, 459 (20 or 21)	61-62
Professional Education Requirements:	
EDN 202, 227, 308, 419, 430, 445, 448; and MUS 400	25
Electives	0
Total	137-138

Requirements for a Bachelor of Science Degree in Music Education with a Keyboard Concentration and with Certification by the State to Teach Music in the Public Schools (Instrumental Orientation).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements:	
MUS 113, 114, 115, 141, 142, 159 (20 or 21), 160 (20 or 21), 171, 172, 191; 193, 205, 214, 215, 241, 242, 259 (20 or 21), 260 (20 or 21), 271, 195, 296, 329, 334, 335, 336, 359 (20 or 21), 360 (20 or 21), 395, 404, 420, 425, 435, 459 (20 or 21)	61-62
Professional Education Requirements:	
EDN 202, 227, 308, 419; 430, 445, 448; and MUS 400	25
Electives	0
Total	137-138

*Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses. Teacher certification requirements of 6 hours of literature and 6 hours of history would each be satisfied in part by Music 296 and Music 395.

Academic Concentration in Music

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Music Department offers an Academic Concentration of 27 hours.

Required Courses

Course Number	Course Title	Semester Hours
MUS 113, 114, and 115		9
MUS 230; MUS 295, 296, 299, or 395		6
MUS 100, 101, and 200 or 141, 142, and 241		3
MUS 159, 160, and 161		3
MUS 181, 182, and 281		3
MUS 329		3
Total		27

MINOR IN MUSIC

The Minor in Music is designed to provide opportunities for any student to develop an understanding and appreciation of music as part of a liberal arts education.

Students who plan a Minor in Music should consult with the Department Chairman in order to acquire a music advisor in addition to their major advisor.

Required Courses		Sem. Hrs.
MUS 113	Fundamentals of Music Theory	3 hrs.
MUS 181-182	Class Piano I & II	2 hrs.
MUS 230	Introduction to Music Appreciation	3 hrs.
MUS 100-201	Concert Choir	
or	or	
MUS 141-241	University Band	3 hrs.
Electives*		7 hrs. (or more)
		<hr/>
		Total 18 (or more)

*A minimum of seven hours to be chosen under the supervision of a Music Department advisor from courses with a music (MUS) prefix.

MINOR IN SACRED MUSIC

Designed for those students who would find it beneficial, both financially and aesthetically, in their future careers. The student will develop skills that will enable him or her to work successfully in the area of sacred music.

The minor in sacred music requires a minimum of 18 semester hours:

Required Courses		Sem. Hrs.
MUS 100-201	Concert Choir	4 hrs.
MUS 329	Conducting	3 hrs.
MUS 390	Church Music	3 hrs.
Electives		8 hrs. (or more)
		<hr/>
		Total 18 hrs. (or more)

*A minimum of 8 semester hours to be chosen under the supervision of a Music Department advisor from the following:

MUS 159-260 (Sect. 01)	Private Voice
MUS 159-260 (Sect. 03)	Private Organ
MUS 159-160 (Sect. 02)	Private Piano
MUS 191	Class Voice
MUS 230	Introduction to Music Appreciation
MUS 295-296, 395	Music History and Literature I, II, & III
MUS 490	Service Playing

MINOR IN JAZZ STUDIES

A program of study designed to equip music majors to perform and teach music in the jazz idiom.

Required Courses		Sem. Hrs.
MUS 235	A Study in Jazz	3 hrs.
MUS 236-237	Improvisation I & II	4 hrs.
MUS 346	Jazz Composition	2 hrs.
MUS 406	Jazz Pedagogy	3 hrs.
MUS 162-363	University Jazz Ensemble	
or		
MUS 156-357	University Jazz Choir	6 hrs.
		<hr/>
		Total 18 hrs.

COURSES (MUS)

THEORY AND GENERAL MUSIC

- 113. Fundamentals of Music Theory**
A comprehensive study of notation, key structure, chord construction, ear training, terminology, and aesthetic principles. Fall. Credit, 3 semester hours. (Students who are excused from MUS 113 by advanced placement must select electives from the theory-composition area upon completion of prerequisites.)
- 114. Theory I**
Prerequisite: MUS 113 or equivalent as determined by instructor.
A study of the basic elements of harmonic analysis emphasizing chord structure, functions, and relationships. Melodic and part-writing skills will be developed. Course includes a related survey of music history and form. Spring. Credit, 3 semester hours.
- 115. Theory II**
Prerequisite: MUS 114.
A continuation of MUS 114. Fall. Credit, 3 semester hours.
- 193. Introduction to Ear Training**
Prerequisite: MUS 115.
A beginning course in ear training techniques dealing with dictation from tapes and the use of other electronic media to improve listening skills. Spring. Credit, 1 semester hour.

209. Basic Musicianship

Restriction: Not open to music majors.

A course in the fundamentals of music. Fall, Spring. Credit, 3 semester hours.

214. Theory III

Prerequisite: MUS 115.

A study of advanced music theory using harmonic techniques of the late nineteenth and early twentieth centuries. Compositional skills will be developed. Course includes a related survey of music history and form. Spring. Credit, 3 semester hours.

215. Theory IV

Prerequisite: MUS 214.

A continuation of MUS 214 emphasizing later twentieth century techniques. Fall. Credit, 3 semester hours.

230. Introduction to Music Appreciation

Restriction: Not to open to music majors.

The development of knowledge and understanding of music. Emphasis given to the forms of music found in different periods and the relationship of music to general cultural development. Fall, Spring. Credit, 3 semester hours.

235. A Study of Jazz

Open to music and non-music majors.

An introduction to jazz through a study of its origins, development, styles, and major innovative figures. Consideration is made of the idiom's historical and sociological contexts. Spring. Credit, 3 semester hours.

236. Improvisation I

Prerequisite: MUS 115 or permission of instructor.

A course in the development of improvisational skills through the study and application of theoretical and stylistic principles common to the jazz idiom. Fall, Spring. Credit, 2 semester hours.

237. Improvisation II

Prerequisite: MUS 236.

A continuation of MUS 236. Fall, Spring. Credit, 2 semester hours.

295. Music History and Literature I

A study of the development of music in non-Western cultures and in Western Civilization from Antiquity through the Renaissance. Such development will be viewed in light of its political, social, and general cultural setting. Fall. Credit, 3 semester hours.

296. Music History and Literature II

Prerequisite: MUS 295.

A study of the development of music in Western Civilization to the Baroque through Classical periods. Such development will be viewed in light of its political, social, and general cultural setting. Spring. Credit, 3 semester hours.

329. Conducting

A laboratory course which includes the study of choral and instrumental conducting techniques, choral and instrumental scores; with supervised conducting experience. Fall. Credit, 3 semester hours.

332. Form and Analysis

Prerequisite: MUS 215.

A study of various forms including large and small choral and instrumental works. Spring. Credit, 2 semester hours.

334. Orchestration and Arranging

Prerequisite: MUS 215.

A practical study of the fundamentals of scoring for individual instruments and ensembles. Spring. Credit, 2 semester hours.

346. Jazz Composition

Prerequisite: MUS 115 or equivalent as determined by Instructor

A study of basic compositional techniques as applied to the jazz idiom. Original compositions will be written and orchestrated for various-sized jazz ensembles. Fall 1990 and Alternate years. Credit, 2 semester hours.

390. Church Music

A study of liturgy, music, materials, and methods appropriate for a church music director. Spring 1991 and Alternate years. Credit, 3 semester hours.

395. Music History and Literature III

Prerequisite: MUS 296.

A study of the development of music in Western Civilization from the Romantic period through the twentieth century. Such development will be viewed in light of its political, social, and general cultural setting. Fall. Credit, 3 semester hours.

404. Senior Recital

Offered to senior music majors participating in a half or full public recital. Credit is given by permission of the instructor and Department Chairman. Fall, Spring. Credit, 0-2 semester hours.

406. Jazz Pedagogy

Prerequisite: MUS 235.

A study of the administration, methods, and directing techniques pertinent to the teaching of Jazz and Commercial Music. Fall 1990 and Alternate years. Credit, 3 semester hours.

425. Piano Pedagogy

A course designed primarily for the keyboard specialist who is planning to teach piano. The course includes methods of teaching, appropriate materials, and techniques for all grade levels. Spring 1990 and Alternate years. Credit, 2 semester hours.

426. Practicum in Piano Teaching

Prerequisite: MUS 425 or permission of the instructor.

Beginning piano lessons offered to area public school students at a nominal fee, and taught by upper level college students. The course provides teaching experiences under the supervision of college instructors. Fall, Spring. Credit, 1-4 semester hours.

430. Music Literature

Prerequisites: MUS 295, 296, 395.

A study of music literature for large and small performing groups of all periods from a stylistic and development viewpoint. Fall. Credit, 3 semester hours.

432. Counterpoint

Prerequisite: MUS 215.

A study primarily of eighteenth-century contrapuntal techniques with a written work in two and three part writing. Fall. Credit, 2 semester hours.

433. Internship in Music Merchandising

Restriction: Must be taken in final semester of study.

The internship will be performed off campus under the direction of a cooperating music sales and/or repair firm. Cooperating firm will work closely with Department of Music faculty in training and evaluation of the intern. Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

445. Music Composition I

Prerequisite: MUS 215 or permission of instructor.

A course designed to implement the student's study of theory. Original compositions will be written for instrumental and choral ensembles in the important music forms utilizing homophonic and polyphonic techniques. Fall. Credit, 2 semester hours.

490. Service Playing

Prerequisite: MUS 259 or the equivalent.

A study of the musical liturgy of the Catholic, Jewish, and Protestant services. Students should be free for Sunday morning church visitations. Spring. Credit, 1 semester hour.

491. Electronic Music

Prerequisite: MUS 114 or MUS 230 with permission of instructor.

A survey of electronic music with an emphasis on listening, aesthetic and philosophical concerns, necessary terminology, and composition/arranging for synthesizer. Various types of synthesis will be explored as well as MIDI systems and MIDI. Sequencing and transcription will be done using a Kurzweil synthesizer, Alesis drum, and comparable equipment in conjunction with an Apple Macintosh SE Computer and selected software programs. Spring (alternate years). Credit, 3 semester hours.

499. Independent Study in Music

Prerequisites: Music major, senior standing, and approval of Department Chairman.

Directed study and research in the student's major field of interest. Fall, Spring. Credit, 1-3 semester hours.

APPLIED MUSIC

Private study is offered in piano, organ, voice, and instruments of the band and orchestra. In each of these fields, the work will be adapted to the needs of the individual student. Courses in applied music are required of all music majors and may be elected with permission of the instructor by students not majoring in music.

1. Applied music lessons require a minimum of five practice hours weekly per credit hour.
2. Freshman, sophomore, and junior music majors must participate in student music recitals. Senior music majors must be in preparation for their senior recital.

159, 160; 259, 260; 359, 360; 459, 460. Applied Music (Courses must follow in sequence).

Private lessons are designed to build technical proficiency, repertoire, and awareness of vocal and instrumental problems. Fall, Spring. One half-hour lesson and one fifty-minute seminar bi-weekly. Credit, 1 semester hour. Two half-hour lessons and one fifty-minute seminar bi-weekly. Credit, 2 semester hours.

1 hour each semester

01. Private Voice
02. Private Piano
03. Private Organ
04. Private Flute
05. Private Oboe
06. Private Clarinet
07. Private Bassoon
08. Private Saxophone
09. Private Trumpet
10. Private French Horn
11. Private Trombone
12. Private Baritone Horn
13. Private Tuba
14. Private Percussion
15. Private Violin
16. Private Viola
17. Private Violoncello
18. Private Bass Viol
19. Private Voice

2 hours each semester

20. Private Piano
21. Private Organ
22. Private Flute
23. Private Oboe
24. Private Clarinet
25. Private Bassoon
26. Private Saxophone
27. Private Trumpet
28. Private French Horn
29. Private Trombone
30. Private Baritone Horn
31. Private Tuba
32. Private Percussion
33. Private Violin
34. Private Viola
35. Private Violoncello
36. Private Bass Viol
37. Private Guitar
38. Private Guitar

Non-keyboard music education majors will fulfill their course requirements in piano by enrolling in MUS 181, 182, 281, and 282 (Class Piano I-IV).

Inasmuch as a proficiency examination is not given to students prior to enrollment at Pembroke State University, each student is evaluated at the conclusion of MUS

259 (Applied Music). This evaluation will be based on the student's performing ability and overall progress in both music and academic courses.

A proficiency examination is also required by the Piano Division at the conclusion of the student's fourth semester of piano instruction. This examination consist of the following:

1. A prepared piano composition of sufficient difficulty,
2. All major and harmonic minor scales, two octaves, hands together,
3. Chord progressions involving primary and secondary triads, dominant-seventh chords, and secondary dominant-seventh chords,
4. Harmonization of melodies with chords cited in point 3 above, and
5. Transposition of simple melodies.

Students must pass these proficiency tests before proceeding to junior-level applied music courses.

All music majors are required to attend all recitals, concerts, and Performing Arts Season Programs which pertain to music.

Graduating seniors must present an individual or joint recital as a partial requirement for graduation. Approval of recital must be given by the music faculty at least three weeks prior to presentation. Students who complete their applied music studies should continue to take lessons for no credit until they have completed their senior recital requirements.

COURSES (MUS)

133. Class Piano I for Non-Music Majors

A concentrated group study of keyboard harmony and playing techniques, designed for the student with little or no musical background. Fall, Spring. Credit, 1 semester hour.

134. Class Piano II for Non-Music Majors

Prerequisite: MUS 133.

A continuation of MUS 133 (Class Piano I for Non-Music Majors). Fall, Spring. Credit, 1 semester hour.

171. Class Woodwind

A concentrated study in fundamentals and playing techniques for Flute, Oboe, Clarinet, Saxophone, and Bassoon. Spring. Credit, 1 semester hour.

172. Class Brass

A concentrated study in fundamentals and playing techniques for Trumpet, Cornet, French Horn, Trombone, Baritone Horn, and Tuba. Spring. Credit, 1 semester hour.

181. Class Piano I

A concentrated group study of keyboard harmony and playing techniques, designed for the music major. Spring. Credit, 1 semester hour.

182. Class Piano II

Prerequisite: MUS 181.

A continuation of MUS 181 (Class Piano I). Fall. Credit, 1 semester hour.

191. Class Voice

A concentrated group study of singing techniques and vocal development including sight-singing. Fall. Credit, 1 semester hour.

205. Class Strings

A concentrated study of fundamentals and playing techniques of the orchestral stringed instruments. Spring. Credit, 1 semester hour.

271. Class Percussion

A concentrated study in fundamentals and playing techniques of percussion instruments. Fall. Credit, 1 semester hour.

281. Class Piano III

Prerequisite: MUS 182.

A continuation of the non-keyboard major's pianistic development with emphasis on the practical aspects of reading, harmonization, and transposition. Spring. Credit, 1 semester hour.

282. Class Piano IV

Prerequisite: MUS 281.

A continuation of MUS 281 (Class Piano III). Fall. Credit, 1 semester hour.

Performing Organizations**100, 101; 200, 201; 300, 301; 400, 401. Concert Choir**

The Concert Choir is open to all persons regardless of planned major with permission of the director. The Choir appears in public concerts throughout the year. Fall, Spring. Credit, 1 semester hour.

107, 108; 207, 208; 307, 308; 407, 408. University Pep Band

The University Pep Band is open to all persons regardless of planned major with permission of the director. Public performances will be made at athletic events and whenever support of scheduled University activities is needed. Fall, Spring. Credit, 1 semester hour each.

110, 111; 210, 211; 310, 311; 410, 411. Music for Male Voices

Music for Male voices is open to all persons regardless of planned major with permission of the director. Public appearances are made throughout the year. Fall, Spring. Credit, 1 semester hour each.

141, 142; 241, 242; 341, 342; 441, 442. University Band

The University Band is open to all persons regardless of planned major with permission of the director. Public appearances are made in concerts. Fall, Spring. Credit, 1 semester hour.

165, 166; 265, 266; 365, 366; 465, 466. Percussion Ensemble

Membership in the University Percussion Ensemble is open to all students by audition or permission of the director. A technical, stylistic, and aesthetic study of percussion ensemble literature through rehearsal and public performance. Fall, Spring. Credit, 1 semester hour each.

156, 157; 256, 257; 356, 357; 456, 457. University Jazz Choir

Membership in the University Jazz Choir is open to all students by audition. A study of vocal music trends, through the rehearsals and performance of pop, rock, progressive jazz, and other modern forms of music. Fall, Spring. Credit, 1 semester hour each.

162, 163; 262, 263; 362, 363; 462, 463. University Jazz Ensemble

Membership in the University Jazz Ensemble is open to all students by audition. A study of technical, stylistic and aesthetic elements of jazz literature through rehearsals and public performance. Fall, Spring. Credit, 1 semester hour each.

335, 336; 435. Accompanying

Prerequisites: MUS 159-160 (02 or 20; 03 or 21) Private Piano/Organ and Instructor's approval.

A course designed to acquaint the keyboard major with the art and techniques of accompanying vocal and instrumental solo and ensemble literature. Fall, Spring. Credit, 1 semester hour each.

373, 374; 473, 474. Chamber Ensemble

The student will become familiar with representative literature for various small ensembles through rehearsal and performance. Fall, Spring. Credit, 1 semester hour each.

MUSIC EDUCATION (MUS)**224. Musical Experiences for Young Children**

Restriction: Not open to music majors.

A course designed to present methods and media of teaching classroom music. Fall, Spring. Credit, 3 semester hours.

299. Music in the Classroom, Grades 4-9

Restriction: Not open to music majors.

A course designed to present various methods and media of teaching classroom music, grades 4-6; and grades 6-9. It is assumed that students enrolling in this course have a knowledge of the fundamentals of music. Fall, Spring. Credit, 3 semester hours.

400. Music Education in the Secondary School (EDN 400)

A study of organization and procedures in general music classes and of vocal and instrumental performing groups in senior high school. Fall, Spring. Credit, 3 semester hours.

405. Music Education, Grades K-9

A study of organization and procedures used in general music classes for the elementary and junior high schools. Fall. Credit, 3 semester hours.

420. Public School Instrumental Music

A study of materials and methods used in building instrumental programs beginning in the elementary school and continuing through high school. Fall. Credit, 3 semester hours.

PHILOSOPHY AND RELIGION
Chairman: ROBERT K. GUSTAFSON

JEFFERY L. GELLER
G. LEA HARPER, JR.*
MERRILL P. MILLER

J. THOMAS MORLEY
P. ALBERT STUDDARD
RAY K. SUTHERLAND

*On Leave

Philosophy and religion have long been considered integral parts of the Liberal Arts Programs. The courses presented here are planned to give the inquiring student an introduction to these broadening disciplines, the means whereby the significance of various disciplines can be interpreted, and a way of viewing, understanding and resolving some of the conflicts and issues in modern culture. These courses prepare the student to take an active part in community activities or in planning for graduate study.

A combined major in philosophy and religion of thirty hours is offered. There are two alternate concentrations. A minor of eighteen hours is also offered.

Students interested in majoring in philosophy and religion should discuss their interests with a faculty member in the Department. In order to help fulfill the aims of the individual student, courses are to be selected in conference with the student's departmental advisor.

Requirements for a Bachelor of Arts Degree in Philosophy and Religion

		Sem.	Hrs.
Orientation Requirement		1	
Basic Studies Requirement*		50	
Courses for the Major:			
30 hours in the department, 18-24 in the appropriate core.			
A student may choose a concentration of 21-24 hours in <i>Philosophy</i> or in <i>Religion</i> ; 6-9 hours must be taken in the other area. Possible distributions are:			
Philosophy Emphasis			
Philosophy	21	24	
Religion	9	6	
Religion Emphasis			
Religion	21	24	
Philosophy	9	6	

A. Required Core Major Courses

Philosophy Emphasis Core (18 hours)

- General Philosophy (6 hours): PHI 100 and PHI 101
 - Philosophy and Culture (3 hours): PHI 102, 204, or 205
 - History of Philosophy (3 hours): PHI 308, 309, or 400
 - Religion (6 hours): REL 130 and one other REL course*
- OR

Religion Emphasis Core (24 hours)

- Philosophy (6 hours): PHI 100 and one other PHI course*
- General Religion (3 hours): REL 105, 106, or 130
- Biblical Religion (3 hours): REL 222 or REL 336
- Comparative Religion (3 hours): REL 213, 216, 218, or 315
- Religious Thought (6 hours); choose two of four:
REL 209, REL 319, REL/PHI 202, REL 405
- Religion and Values (3 hours): REL 214, 324, or 417

B. Electives in the Area of Emphasis: Philosophy or Religion

- 12 hours for Philosophy Emphasis
- 6 hours for Religion Emphasis

Electives	47
Total	128

*With advisor select 100 or 200 level course.
 For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Department of Philosophy offers an academic major of 30 hours. Six hours of this 30 may also be used to meet Basic Studies requirements.

CERTIFICATION IN BIBLE

Teacher certification in Bible is obtainable. See the Chairman of the Department.

MINORS IN PHILOSOPHY AND RELIGION 18 Semester Hours

The Department of Philosophy and Religion offers minors for students in other majors. Students majoring in Philosophy and Religion may also pursue a minor in the department under certain circumstances. There are a number of courses in the department which may be used in developing a minor. Students are encouraged to consult with a member of the department in planning a minor. Some of the possibilities would be in Biblical Studies, Non-Western Religions, Ethics, Church History, Religious Thought, and Philosophy.

Minor Areas and Required Courses in the Minor

The minor requires 18 semester hours. A large number of elective hours are possible in each minor. Minors must be approved by the Department.

- | | |
|----------------------------|---|
| 1. Philosophy Minor | Philosophy 100, Introduction to Philosophy, required, plus 15 elective hours. |
| 2. Religion Minor | Religion 130, Introduction to Religion, required, plus 15 elective hours. |
| 3. Philosophy and Religion | Philosophy 100 and Religion 130 required, plus 12 elective hours. |

COURSES PHILOSOPHY (PHI)

GENERAL

100. Introduction to Philosophy

A survey of the major issues and philosophers in the history of western philosophy. Fall, Spring. Credit, 3 semester hours.

102. Perspectives on Humanity (REL 102)

A study of the dominant understandings of humanity. Philosophical, religious, scientific, and literary sources are read and discussed. Fall, Spring. Credit, 3 semester hours.

HISTORY

211. American Philosophy

American Philosophy

Prerequisite: PHI 100 or consent of instructor.

A study of the major figures in American philosophy, including Peirce, Royce, James, and Dewey. Alternate Spring. Credit, 3 semester hours.

308. The Great Philosophers: Ancient and Medieval

Prerequisite: PHI 100 or consent of instructor.

Studies in Plato, Aristotle, Augustine, and Aquinas. Alternate Fall. Credit, 3 semester hours.

309. The Great Philosophers: Modern and Contemporary

Prerequisite: PHI 100 or consent of instructor.

Studies in Descartes, Locke, Kant, Hegel, Nietzsche, and Wittgenstein. Alternate Spring. Credit, 3 semester hours.

400. Contemporary Philosophy

A study of phenomenology, existentialism, post-modernism, logical positivism, ordinary language philosophy, and conceptual analysis. Alternate Fall. Credit, 3 semester hours.

LOGIC

101. Introduction to Logic

The methods and principles of correct thinking. Emphasis on informal logic, the syllogism, and fallacies. Fall, Spring. Credit, 3 semester hours.

201. Methods of Formal Logic

Prerequisite: PHI 101 or consent of instructor.

A study of modern symbolic logic. Emphasis on deductive proofs, quantification theory. Analysis of contemporary issues. Alternate Spring. Credit, 3 semester hours.

PHILOSOPHY AND CULTURE

202. Philosophy of Religion (REL 202)

An inquiry into the philosophical foundations of religion, the problems connected with belief and knowledge, faith and reason, the character and meanings of religious commitment. Alternate Spring. Credit, 3 semester hours.

204. Introduction to Ethics

A study of the criteria by which moral decisions are made and their applications to selected contemporary ethical issues. Spring. Credit, 3 semester hours.

205. Social and Political Philosophy

Studies of opposing philosophical views about humankind and the foundation of political and social life. Alternate Fall. Credit, 3 semester hours.

321. Philosophy of Science

Prerequisite: PHI 100 or consent of instructor.

A study of the problems and human implications of the mathematical, physical, biological, and social sciences leading to philosophical synthesis of the relation of the sciences to humankind. Alternate Spring. Credit, 3 semester hours.

322. Religion and Science (REL 322)

Prerequisite: PHI 100 or consent of instructor.

An examination of issues between science and religion and a consideration of a tradition in natural theology used to validate religious claims. Alternate Fall. Credit, 3 semester hours.

376. Medical Ethics (SOC 376)

An examination of the major ethical issues raised by recent medical developments, such as: abortion, psychosurgery, organ transplants, euthanasia, human experimentation and health care. Alternate Fall. Credit, 3 semester hours.

377. Philosophy of Law

Prerequisite: PHI 100 or consent of instructor.

An examination of major ethical and philosophical issues concerning law and justice arising out of contemporary legal process, seeking an answer to questions of the rights of the individual vis-a-vis the state. Alternate Spring. Credit, 3 semester hours.

423. Philosophy of Art and Beauty

A study of aesthetic values in nature, art, literature, music, and drama. Alternate Spring. Credit, 3 semester hours.

443. Business Ethics

An analysis and evaluation of ethical theories and their application to business. Possible topics include economic justice, social responsibility of business, corporate responsibility, self-regulation and government regulation, duties to the environment, ethics of advertising, the rights and duties of employees, manufacturers and consumers. As announced. Credit, 3 semester hours.

METAPHYSICS AND EPISTEMOLOGY**311. Theories of Knowledge and Reality**

Prerequisite: PHI 100 or consent of instructor.

A study of the major attempts to answer the fundamental questions about the self, the nature of reality, God, perception, and belief. Alternate Fall. Credit, 3 semester hours.

SPECIAL STUDIES IN PHILOSOPHY**409. Philosophy and Society Practicum**

Prerequisite: Consent of instructor.

An opportunity to observe the work of community agencies and institutions in order to discover, examine and analyze their basic philosophical assumptions. Courts of law, hospitals, and prisons would be examples of such institutions. Fall, Spring. Credit, 1-3 semester hours.

420. Seminar in Philosophy

Prerequisite: Major or consent of instructor.

An examination of selected philosophers, movements, problems, or major ideas to be presented each term the course is presented. The objectives of the course may be met by directed research. The course may be repeated for credit up to and including 9 semester hours as long as there is no duplication of subject matter. Fall, Spring. Credit, 1-3 semester hours.

499. Independent Study in Philosophy

A student who wishes to enroll in 499, Independent Study, must: 1. be classified as a senior, 2. have a cumulative grade point average of 3.0 or better in the major area of study, 3. request independent study in the major area, and 4. submit a Request for Approval of Independent Study in triplicate to the Office of Academic Affairs. The form can be obtained from the Department Chairman. It must be approved by: 1. the professor supervising the student in independent study, 2. the Department Chairman, 3. the Dean of Admissions and Registration, and 4. the Office for Academic Affairs. The student may elect to work for one, two, or three semester hours of credit. Upon completion of the independent study, the student must prepare a type-written report of the study in triplicate. If the supervising professor feels it is appropriate, the report will be catalogued and permanently housed in the Library. Fall, Spring, Summer. Credit, 1-3 semester hours.

RELIGION (REL)

GENERAL (REL)

102. Perspectives on Humanity (PHI 102)

Prerequisite: PHI 100 or REL 130.

A study of the dominant understandings of humanity. Philosophical, religious, scientific, and literary sources are read and discussed. Fall or Spring. Credit, 3 semester hours.

130. Introduction to Religion

This course seeks to define what religion is and to outline different approaches to the study of religion. The following questions are discussed: What are the roots of religious faith? What might a mature religious faith look like? Readings relating religion to the new generation are part of this study. Fall, Spring. Credit, 3 semester hours.

BIBLICAL

105. Survey of the Old Testament

A study of the Covenants in Israel, of the rise and fall of the Hebrew nations under the judges and kings, of the religious development of the people as written in the literature of these periods. Fall, Spring. Credit, 3 semester hours.

106. Survey of the New Testament

The study of the origins and development of Christianity from Jesus Christ through the first century with emphasis on the writings of that age in correlation with the history of the Roman Empire. Fall, Spring. Credit, 3 semester hours.

203. The Pentateuch

Prerequisites: REL 130 or consent of instructor.

A study of the composition and structure of the Pentateuchal literature (the first five books of the Bible) and how these narratives and laws were perceived and applied throughout Israel's history. Alternate Fall. Credit, 3 semester hours.

222. Life and Letters of Paul

Prerequisites: REL 106 or REL 130 or consent of instructor.

A study of the life and world of Paul with special consideration of his preparation and mission, his style and subject matter. Spring. Credit, 3 semester hours.

227. Biblical Archaeology

A study of the Old and New Testament world as based on the findings of archaeology. Emphasis upon modes of daily living and on location of ancient cities and urban areas. Alternate Spring. Credit, 3 semester hours.

317. Biblical Poetry

A study of poetic literature found in the Old Testament, the Apocrypha, and the New Testament. Alternate Fall. Credit, 3 semester hours.

318. Apocalyptic Literature

A study of apocalyptic literature of the Old and New Testaments with emphasis on the historical, religious and psychological backgrounds. Alternate Spring. Credit, 3 semester hours.

336. Life of Jesus

Prerequisites: REL 106 or REL 130 or consent of instructor.

A study of the life and teachings of Jesus as they are presented in the four gospels with emphasis upon world conditions in his day and the significance of teachings on Jesus' death and understanding of the resurrection. Fall. Credit, 3 semester hours.

337. Prophetic Literature of the Bible

Prerequisite: REL 130 or 105 or consent of instructor.

A review of the call, purpose, and work of the prophet. A study of the writings of Amos, Hosea, Jeremiah, Isaiah, etc. Alternate Fall. Credit, 3 semester hours.

400. Ancient Near East Texts

Prerequisite: REL 105 or 106 or consent of instructor.

A study of the formation of biblical communities, their ideologies, institutions and forms of leadership in the Ancient Near East and in Late Antiquity from the perspective of the social sciences. Ancient near eastern and Greco-Roman as well as biblical texts will be utilized for analysis and comparison. As announced. Credit, 3 semester hours.

401. Biblical Narrative

Prerequisite: Religion 130 or consent of instructor

A study of the poetics, genres, and messages of narrative literature in the Old Testament and the New Testament: the Pentateuch, the former Prophets, the Apocrypha, and the Gospels. As announced. Credit, 3 semester hours.

RELIGIOUS THOUGHT AND CULTURAL EXPRESSION**202. Philosophy of Religion (PHI 202)**

An inquiry into the philosophical foundations of religion, the problems connected with belief and knowledge, faith and reason, and the character and meanings of religious commitment. Alternate Spring. Credit, 3 semester hours.

209. Religion in America

A study of distinctive themes and characteristics of religion in America. Topics such as Civil Religion, Religious Liberty and the Free Church, Revivalism, American Religious Movement, Missions, Black Religion, American Indian traditions, and American religion in ferment will be considered. Fall. Credit, 3 semester hours.

214. Introduction to Religious Ethics

This course investigates how questions about morality can be approached within the Judeo-Christian tradition. The Old and New Testament teachings about ethics are examined along with the perspectives of Christian ethicists. Several ways of developing a basic framework for ethical decision-making are considered. As announced. Credit, 3 semester hours.

305. The Religious Dimensions of Modern Literature

Prerequisite: REL 130.

A study of the spiritual, moral, and psychological dimensions of selections from modern American and European literature. Works to be considered will be chosen from such writers as the following: Albert Camus, Herman Hesse, Kurt Vonnegut, Ken Kesey, C.S. Lewis, and Graham Greene. As announced. Credit, 3 semester hours.

310. Sects, Cults, and Religious Movements in America

A study of the origins, growth, beliefs, and practices of sects, cults, and religious movements in America. Alternate Fall. Credit, 3 semester hours.

319. Modern Religious Thought

Prerequisite: REL 130 or consent of instructor.

A study of selected trends and figures in modern religious thought. Alternate Fall or Spring. Credit, 3 semester hours.

322. Religion and Science (PHI 322)

Prerequisite: PHI 100 or consent of instructor.

An examination of issues between science and religion and a consideration of a tradition in natural theology used to validate religious claims. Alternate Fall. Credit, 3 semester hours.

324. Religious Ethics and Social Living

Prerequisite: REL 214 or consent of instructor.

An in-depth examination of ethical issues involved in contemporary social life (in business, education, law, medicine, military service) and of possible religious responses. The role of faith in decision-making about social issues will be analyzed. Films and guest speakers will provide material for discussion. As announced. Credit, 3 semester hours.

338. History of Christianity (HST 338)

A survey of the history of Christianity after Paul to the 20th century. As announced. Credit, 3 semester hours.

405. Modern Interpretations of Jesus

Prerequisite: REL 113 or 211 or consent of instructor.

A variety of recent, fresh interpretations are examined, including such different viewpoints as Hugh Schonfield's *The Passover Plot*, William Barclay's *The Life of Jesus for Everyman*, and Albert Cleage's *The Black Messiah*. Significant film portraits of Jesus (*The Parable*, *Jesus Christ Superstar*, and *Godspell*, for example) may also be viewed and analyzed. Alternate Spring. Credit, 3 semester hours.

417. Sociology of Religion (SOC 417)

Prerequisite: Consent of instructor.

Religious institutions and relationships in modern society. As announced. Credit, 3 semester hours.

COMPARATIVE RELIGIONS**213. American Indian Religious Traditions (AIS 213)**

This course is designed as an introduction to the contributions that American Indian religious traditions make to the general study of religion. As such, it is a survey of the religious traditions and practices of American Indians. Spring. Credit, 3 semester hours.

216. Religions of the Far East

A study of the historical development and teachings of Hinduism, Buddhism, Confucianism and Shintoism. Offered in alternate years in sequence with REL 218 and 315. Credit, 3 semester hours.

218. Religions of the Near East

A study of the historical development and teachings of the religions of the Near East with emphasis on Islam, Zoroastrianism, and Baha'ism and including current Near Eastern Christians. Offered in alternate years in sequence with REL 216 and 315. Credit, 3 semester hours.

315. Judaism

An examination of the history, literature, and faith of Post-Exilic Judaism. Offered in alternate years in sequence with REL 216 and 218. Credit, 3 semester hours.

SPECIAL STUDIES IN RELIGION**309. Experiential Learning I**

Applied Religion-Philosophy and Society Practicum. An opportunity to observe and to participate in the work of community agencies relevant to the major. An example of an agency would be the Robeson County Church and Community Center. Fall, Spring. Credit, 3 semester hours.

409. Experiential Learning II

Applied Religion-Philosophy and Society Practicum

Prerequisite: REL 309.

The description of REL 409 is essentially the same as for REL 309. The nature of the practicum usually will be different from that of REL 309. (Majors may use not more than three semester hours of credit earned in Experiential Learning I and II in meeting the major requirement.) Fall, Spring. Credit, 1-3 semester hours.

420. Special Studies in Religion

Prerequisite: Major or consent of instructor.

A study of selected religious problems, themes, issues or topics to be selected each term the course is presented. The objectives of the course can be satisfied by means of Directed Research. Possible topics are: Religion and Human Life, Myth, Symbol and Metaphor, Religion and Art, Hermeneutics, Contemporary Issues in Religion, Religious Dimensions in Education, and Counseling. Fall, Spring. Credit, 3 semester hours. This course may be repeated for credit up to and including 9 hours as long as there is no duplication of subject matter.

499. Independent Study

A student who wishes to enroll in REL 499, Independent Study, must: 1. be classified as a senior, 2. have a cumulative grade point average of 3.0 or better in the major area of study, 3. request independent study in the major area, and 4. submit a Request for Approval of Independent Study in triplicate to the Office for Academic Affairs. The form can be obtained from the Department Chairman responsible for the student's major area of study. It must be approved by: 1. the professor supervising the student in independent study, 2. the Department Chairman, 3. the Dean of Admissions and Registration, and 4. The Office for Academic Affairs. The student may elect to work for one, two, or three semester hours of credit. Upon completion of the independent study, the student must prepare a typewritten report of the study in triplicate. If the supervising professor feels it is appropriate, the report will be catalogued and permanently housed in the Library. Fall, Spring. Credit, 1-3 semester hours.

PHYSICAL SCIENCE

Chairman: JOSE J. D'ARRUDA*

DALTON P. BROOKS
PAUL A. FLOWERS
LEONARD D. HOLMES
JOHN E. REISSNER

HAROLD J. TEAGUE
JOHN S. WALLINGFORD
PETER WISH**

**Science Education Coordinator

*Pre-Engineering Coordinator

The Physical Science Department currently offers a Bachelor of Science Degree with a major in Chemistry, including a Biomedical Concentration and a Concentration in Medical Technology. Students who have completed the program have been successful at entering professional schools, gaining employment in government and industry, as well as pursuing graduate studies in chemistry.

The Physical Science Department also offers a pre-engineering program. This program has been approved by the Subcommittee on Engineering programs at North Carolina A & T State University, North Carolina State University, and the University of North Carolina at Charlotte.

Coordination of the interdepartmental Bachelor of Science Degree program in Science Education as well as the course offerings in Science Education are also offered through the Physical Science Department. The Department also cooperates with the Education Department in coordinating a science concentration of the B.S. in Middle Grades Education (6-9).

Requirements for a Bachelor of Science Degree in Chemistry

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements*	50
Major Requirements	
CHM 100, 110; 101, 111; 226; 227; 300, 301; 327; 410; 498	32
Elective in Chemistry (above 299)	3
PHY 206, 207, and either PHY 150, 151, or PHY 200, 201	8
MAT 107, 108 or equivalent; 221, 222	8-14
Electives	20-26
Total	128

*Students who plan a major in Chemistry should request an advisor in the Physical Science Department and consult with that advisor before registering for Basic Studies courses.

Requirements for a Certification in Science for the B.S. Degree in Middle Grades Education (6-9)

PHS 110, 111, 108, 109, or PHY 150, 151, 206, 207	8
BIO 100, 100L, 103; CHM 100, 110	11
GLY 115, 115L, 125; SCE 350	10
Total	29

Requirements for the B.S. Degree in Science Education with a major in Chemistry or concentration in Physics (See Special Programs: Science Education)

Requirements and Course Sequence for a Bachelor of Science Degree in Chemistry with a Biomedical Concentration.

First Year

Fall				Spring			
CHM 100 &				CHM 101&			
110	General Chemistry	4		111	General Chemistry	4	
CMA 105	Composition I	3		CMA 106	Composition II	3	
MAT 107	College Algebra	3		MAT 215	Calculus with		
BIO 100&L	Principles of Biology	4			Applications .	3	
Basic Studies	(Physical Edn)	1		BIO 102	General Zoology	4	
ORI 100	University Orientation	1		Basic Studies	(Physical Edn)	1	

Fourth Year

Fall				Spring			
CHM 311	Biochemistry	3		CHM 327	Instrumental Methods	4	
BIO 427	Principles of Genetics	4			of Analysis		
Basic Studies	(Social Science)	3		Basic Studies	(Social Science)	6	
Basic Studies	(Humanities)	3			Advised Electives	4	
	Advised Electives	1					
			14				14

Academic Concentration in Physics

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Physical Science Department offers an Academic Concentration of 24 hours. This Academic Concentration is available to other students, regardless of major.

Required Courses

Course Number	Course Title	Semester Hours
PHY 150	College Physics I	3
PHY 206	Physics Lab	1
PHY 151	College Physics II	3
PHY 207	Physics Lab	1
PHY 218	Optics	3
PHY 256	Modern Physics	3
PHY 320	Electricity and Magnetism	3
PHY 321	Electricity and Magnetism	3
PHY 326	Heat and Temperature	3
PHY 448	Special Topic (Research Project)	1
		<hr/>
Total		24

Requirements for a Bachelor of Science Degree in Chemistry with a Concentration in Medical Technology (See page 158 for a description of the program.)

First Year

Fall				Spring			
CHM 100 &				CHM 101 &			
110	General Chemistry	4		111	General Chemistry	4	
BIO 100 & L	Principles of Biology	4		BIO 102	General Zoology	4	
MAT 107	College Algebra	3		Basic Studies	(Humanities)	3	
Basic Studies	(Humanities)	3		Basic Studies	(Social Science)	3	
CMA 105	Composition I	3		CMA 106	Composition II	3	
ORI 100	University Orientation	1					
			18				17

Second Year

CHM 226	Elementary Inorganic Chem.	4	CHM 227	Classical Methods of Analysis	4
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry	4
PHY 150	College Physics	3	PHY 151	College Physics	3
PHY 206	Physics Lab	1	PHY 207	Physics Lab	1
MAT 210	Intro. to Statistics	4	Basic Studies (Humanities)		3
		16			15

Third Year

Fall			Spring		
CHM 311	Biochemistry	3	BIO 315	Microbiology	4
BIO 371	Cell Biology	4	Basic Studies (Humanities)		3
Basic Studies (Humanities)		6	Basic Studies (Social Science)		6
Basic Studies (Social Science)		3	Basic Studies (Physical Edn)		1
Basic Studies (Physical Edn)		1			
		17			14

Fourth Year

Clinical Training in Approved Hospital Program 35 Semester Hours

Requirements and Course Sequence for M.A.R.C. Training Program in Chemistry. For program description see p. 161.

First Year

Fall			Spring		
CHM 100&			CHM 101&		
110	Gen. Chemistry w/lab	4	111	Gen. Chemistry w/lab	4
CMA 105	Composition I	3	CMA 106	Composition II	3
MAT 107	College Algebra	3	MAT 108	Plane Trigonometry	3
BIO 100&L	Prin. of Biology w/lab	4	BIO 102	General Zoology w/lab	4
Basic Studies (Physical Edn)		1	Basic Studies (Physical Edn)		1
ORI 100	University Orientation	1	Basic Studies (Humanities)		3
		16			18

Second Year

Fall			Spring		
CHM 226	Elementary Inorganic Chem.	4	CHM 227	Classical Methods of Analysis w/lab	4
PHY 150	College Physics	3	PHY 151	College Physics	3
PHY 206	Physics Lab	1	PHY 207	Physics Lab	1
BIO 211	Human Anat. & Phys. w/lab	4	BIO 212	Human Anat. & PHys. w/lab	4
MAT 210	Intro. to Statistics w/lab	4	Basic Studies (Humanities)		3
		16	Basic Studies (Social Science)		3
					18

Third Year

Fall				Spring			
CHM 300	Organic Chem. w/lab	4		CHM 301	Organic Chem. w/lab	4	
BIO 371	Cell Biology w/lab	4		CHM 498	Literature Seminar	1	
MAT 221	Calculus	4		BIO 315	Microbiology w/lab	4	
Basic Studies (Humanities)		6		MAT 222	Calculus II	4	
				Basic Studies (Humanities)		3	
				Advised Electives		3	
			18				19

Fourth Year

Fall				Spring			
CHM 311	Biochemistry	3		CHM 327	Instrumental		
BIO 427	Prin. of Genetics w/lab	4			Methods	4	
Basic Studies (Social Science)		3			of Analysis		
Basic Studies (Humanities)		3		Basic Studies (Social Science)		6	
CHM 410	Physical Chemistry	3			Advised Electives	4	
CHM 412	Physical Chem. Lab	1		CHM 411	Physical Chemistry	3	
				CHM 413	Physical Chem. Lab	1	
			17				18

Pre-Engineering Program

In affiliation with North Carolina State University, The University of North Carolina at Charlotte, and North Carolina A&T State University, the Department of Physical Science is able to offer a pre-engineering program to selected students. Students selected into this program complete two years of a prescribed program at Pembroke State University. Upon successful completion of this program, these students can transfer into their junior year at one of the above mentioned engineering schools.

Admission to the program is through a formal interview with the Committee on Pre-engineering. Requests for interviews can be made any time with the departmental secretary. Additional information may be obtained from the chairman of the Physical Science Department.

Requirements for the Pre-Engineering Program**First Year**

Fall				Spring			
CMA 105	Composition I	3		CMA 106	Composition II	3	
MAT 221	Calculus I	4		MAT 222	Calculus II	4	
CHM 100& 110	General Chemistry	4		CHM 101& 111	General Chemistry	4	
Humanities/Social Science		6		EGR 205	Engineering Graphics	2	
				Humanities/Social Science		3	
			17				16

Second Year

Fall				Spring			
MAT	316	Intermed. Calculus	4	MAT	322	Differential Equat.	3
PHY	200	University Physics I	4	PHY	201	University Phys. II	4
CSC	200	Intro. to Comp. Prog.		ECN	201	Prin. of Economics I	3
		FORTTRAN	3	EGR	201	Engineer. Dynamics	3
	or					Humanities/Social Science	3
CSC	250	Comp. Prog. & Algorithms (PASCAL)					
EGR	200	Engineering Statics	3				
Humanities/Social Science			3				
			17				16

PHYSICAL SCIENCE (PHS)

- 108. Physical Science Laboratory I**
Prerequisite: Enrollment in or completion of PHS 110 or equivalent.
Laboratory activities designed to parallel and reinforce the concepts presented in PHS 110. Fall/Spring. Credit, 1 semester hours.
- 109. Physical Science Laboratory II**
Prerequisite: Enrollment in or completion of PHS 111 or equivalent.
Laboratory activities designed to parallel and reinforce the concepts presented in PHS 111. Fall/Spring. Credit, 1 semester hours.
- 110. Physical Science I**
Prerequisite: None.
A general study of concepts in physical science, such as measurement, motion, force, work, mechanical energy, temperature and heat, atomic structure, the periodic table, elements, compounds, mixtures, and sounds. Fall/Spring. Credit, 3 semester hours.
- 111. Physical Science II**
Prerequisite: PHS 110 or equivalent.
A general study of concepts in physical science such as: optics, electricity, magnetism, electromagnetics, radiation, nuclear energy, the universe, the solar system, the earth's crust, minerals, rocks, and plate tectonics. Fall/Spring. Credit, 3 semester hours.
- 116. Exploring Man's Energy Choices**
A survey of the evolution of the energy crisis. The various energy alternatives are considered with regard to the technological, environmental, and economic problems associated with each. Fall. Credit, 3 semester hours.
- 156. Astronomy**
A study of all matter and energy in the universe, emphasizing the concentration of this matter and energy in evolving bodies such as planets, stars, and galaxies. Topics include the sun, solar systems, stars, black holes, pulsars, supernova and quasars. Fall, Spring. Credit, 3 semester hours.

CHEMISTRY (CHM)**100. General Chemistry I**

Composition, structure, and properties of matter, including stoichiometry, atomic and molecular structure and theory, and chemical periodicity. Fall, Spring. Credit, 3 semester hours.

110. General Chemistry Laboratory I

Laboratory exercises correlated with topics of Chemistry 100. Fall, Spring. Credit, 1 semester hour.

Note: Laboratory is required for presentation of General Chemistry as a professional requirement or prerequisite.

101. General Chemistry II

Prerequisite: Chemistry 100

Chemical reactivity, including properties of solutions, kinetics and equilibrium, acids and bases, and electrochemistry. Basic chemical principles applied to organic, inorganic, and nuclear systems. Fall, Spring. Credit, 3 semester hours.

111. General Chemistry Laboratory II

Laboratory exercises correlated with topics of Chemistry 101. Fall, Spring. Credit, 1 semester hours.

Note: Laboratory is required for presentation of General Chemistry as a professional requirement or prerequisite.

210, 211. Organic and Biological Chemistry

Prerequisite: CHM 101.

Molecular structure, including stereochemistry, reactivity, and the theoretical basis for correlation between the two. Different types of reaction mechanisms are presented using as examples molecules of biological importance. A laboratory is included. Fall. Credit, 4 semester hours.

226. Elementary Inorganic Chemistry

Prerequisite: CHM 101.

Fundamental principles of inorganic chemistry, including coordination chemistry, will be examined through a study of the descriptive chemistry of metallic and nonmetallic elements. Laboratories will involve the preparation and characterization of technologically important chemical substances. Fall. Credit, 4 semester hours.

227. Classical Methods of Analysis

Prerequisite: CHM 101.

The principles and techniques of classical qualitative and quantitative methods of analysis will be examined. Laboratories will involve separation and identification of common inorganic ions by traditional "wet" methods and quantitative analysis of substances by gravimetric and volumetric techniques. Spring. Credit, 4 semester hours.

300, 301. Organic Chemistry

Prerequisite: CHM 101.

The aliphatic and aromatic carbon compounds with special emphasis on structure, major reactions, and reaction mechanisms. A laboratory is included. Fall. Credit, 4 semester hours each.

302. Introduction to Spectroscopy and Structure Determination

Prerequisite: CHM 301 or concurrently.

A study of the major spectroscopic methods, including NMR, IR, UV/Visible, and Mass Spectrometry, and how data from these sources are used to determine molecular structure. Laboratory projects are included, as announced. Credit, 3 semester hours.

311. Biochemistry

Prerequisite: CHM 301 or 310.

A study of the chemical constitution of living matter and the biochemical build-up and breakdown of molecules in living organisms. As announced. Credit, 3 semester hours.

312. Experimental Methods in Biochemistry

Prerequisite: Enrollment in, or completion of CHM 311.

A student laboratory which deals with the experimental methods used in biochemistry. As announced. Credit, 1 semester hour.

327. Instrumental Methods of Analysis

Prerequisites: CHM 227, PHY 151 or equivalent.

The principles and techniques of instrumental methods for the separation, identification, and quantitative analysis of substances will be examined. Laboratories will give students hands-on experience with modern spectroscopic, electroanalytical, and chromatographic instrumentation. As announced. Credit, 4 semester hours.

370. Science Communications and Research Methods

Prerequisite: Junior or Senior standing in Biology or Chemistry, and consent of instructor.

A review of the current literature in a variety of biomedical journals. The format for presentation of material and the research methods employed will be examined. Designed so that students can obtain an understanding of how research is done and how it is reported. As announced. Credit, 1 semester hour.

399. Research in Chemistry

Prerequisite: Consent of Department Chairman.

This course involves student research on projects supervised by departmental faculty. Both laboratory and library work are typically included, and a formal report of results is required upon completion of the project. Fall, Spring. Credit, 1-3 semester hours. May be repeated for a maximum of 6 semester hours.

410, 411. Physical Chemistry

Prerequisite: 16 hrs. of college chemistry, mathematics through calculus, and consent of instructor.

A theoretical and mathematical treatment of the fundamental laws and theories underlying the science of chemistry. As announced. Credit, 3 semester hours each.

412, 413. Experimental Methods in Physical Chemistry

Prerequisite: Enrollment in, or completion of, CHM 410 or 412, and 411 or 413.

A student laboratory which deals with experimental methods used in physical chemistry. As announced. Credit, 1 semester hour.

448. Special Topics in Chemistry

Prerequisite: Consent of the Instructor.

Advanced class study in selected areas of chemistry. As announced. Credit, 1-3 semester hours.

495. Seminar

Prerequisite: Junior or Senior standing in Biology or Chemistry and consent of instructor.

A seminar series in which current biomedical research projects are presented and discussed. Most seminars will be presented by visiting scientists recruited from research laboratories in industry and universities. MARC trainees will be required to present a seminar in their senior year. Fall/Spring. Credit, 1-4 semester hours.

498. Literature Seminar

Prerequisite: Junior or Senior chemistry major.

Introduction to methodology of researching topics in the chemical literature. Spring. Credit, 1 semester hour.

499. Independent Study in Chemistry

Prerequisite: Consent of Department Chairman.

Individual study in advanced areas of chemistry. Offered for chemistry majors only. Fall, Spring. Credit, 1 to 3 semester hours.

PHYSICS (PHY)**100. Elementary Physics I**

In an essentially descriptive fashion this course described the nature of: motion and its causes, energy, momentum, theory of relativity, heat and temperature, pressure, sound, and others. Fall. Credit, 3 semester hours.

101. Elementary Physics II

Prerequisite: It is helpful (but not required) to have taken PHY 100 as background for this course.

In the fashion of PHY 101, this course describes the nature of electricity and magnetism, light and optical devices, and the atom (what we now know and what we believe we can't know). Spring. Credit, 3 semester hours.

115. Electronics (A Survey)

The limitations of electronics are not known. We live in an "electronic age." This course is a survey of the entire field of electricity and electronics from why rubbing a balloon can cause it to stick to the ceiling (apparently defying gravity), through how radio and TV work, to the modern electronics of the calculator and computer. As announced. Credit, 3 semester hours.

150, 151. College Physics I, II

Prerequisite: MAT 107 or equivalent for 150; 150 for 151.

A treatment of the subject matter of general physics (listed, in part, under 100, 101) at a level of thoroughness expected in such curricula as pre-med, biochemistry, etc. (for pre-engineering or physics curricula see 200, 201). Fall, Spring. Credit, 4 semester hours each with laboratory (206, 207).

200, 201. University Physics I, II

Prerequisite: MAT 221 or equivalent (may be taken concurrently) for 200; 200 for 201.

The most thorough treatment of the subject matter of general physics (listed, in part, under 100, 101). A beginning course expected in such curricula as preengineering, physics, etc. As announced. Credit, 3 semester hours.

206, 207. Physics Laboratory

Prerequisite: For 206, enrollment in, or completion of PHY 100, 150, or 100. For 207, enrollment in or completion of PHY 101, 151, or 201.

A student laboratory to complement and reinforce the physical relationships discussed in the lecture classes. Fall, Spring. Credit, 1 semester hours each.

218. Optics

Prerequisite: PHY 101, 151, or 201.

Optical instruments such as cameras, telescopes, and many more are discussed. Their uses, limitations, and how they work are all included. Experimentation comprises half of the course. As announced. Credit, 3 semester hours.

256. Modern Physics

Prerequisite: PHY 101, 151, or 201.

A survey of the physics of the 20th century. The fundamental ideas of the theory of relativity and quantum mechanics via the anomalies that led to their formulation. As announced. Credit, 3 semester hours.

320, 321. Electricity and Magnetism

Prerequisite: PHY 101, 151, or 201 and working knowledge of calculus for 320; 320 for 321.

Electrostatics, magnetic and electric fields, capacitance, inductance, electric machinery and meters. As announced. Credit, 3 semester hours.

326. Heat and Temperature

Prerequisite: PHY 100, 150, or 200 and a working knowledge of calculus.

heat and its effects. heat engines and their limitations. The concepts of entropy and other facets of thermodynamics. As announced. Credit, 3 semester hours.

336. Mathematical Physics

Prerequisite: A working knowledge of calculus.

Three dimensional vector and tensor calculus. Green's and Stoke's theorems. Vector spaces, linear independence, orthogonality. Hermitian and unitary operators. Eigenvalues and eigenvectors of operators, functions spaces as vector spaces, and elements of the theory of distributions. As announced. Credit, 3 semester hours.

356. Modern Electronics

Prerequisites: PHY 115 or 151 or 201 or equivalent.

An introduction to Analog and Digital Electronics. Problems and techniques of interfacing with laboratory instruments and computers. Spring. Credit, 3 semester hours.

448. Special Topics

Prerequisites: PHY 101, 151, or 201; MAT 222.

Individual study either of subject matter in existing courses (in more depth) or of subjects for which there is no present formal course. As announced. Credit, 1-3 semester hours.

ENGINEERING (EGR)**200. Engineering Statics**

Prerequisites: PHY 200, MAT 221.

The study of engineering statics using vector calculus. Basic concepts, forces, and equilibrium analysis, distributed forces, centroids, moments of inertia, virtual work, applications to machines, structures, and systems. Fall. Credit, 3 semester hours.

201. Engineering Dynamics

Prerequisite: EGR 100.

The study of engineering dynamics using vector calculus. Equations of motion, kinematics, kinetics of mass points and systems of mass points, kinetics, and kinematics of rigid bodies. Spring. Credit, 3 semester hours.

205. Engineering Graphics

Introduction to graphical representation and engineering drawing. Instrument and free-hand drawing of structures and machine parts, including isometric, oblique, and perspective drawings, sectional and auxiliary views, and orthographic projections. (Laboratory) Spring. Credit, 2 semester hours.

SCIENCE EDUCATION (SCE)**300. Early Experiences for Prospective Science Teachers**

An introduction to the teaching of science for prospective secondary science teachers. A minimum of 16 clock hours of directed classroom observations and planned participation in actual classroom settings and 8 clock hours of seminar class instruction in the teaching area. Fall, Spring. Credit, 1 semester hour.

301. Practicum for Secondary Science Teacher

Prerequisites: SCE 300 and at least 16 semester hours of science in area of concentration. Two two-hour laboratories per week, practical experiences in setting up laboratories in the life and physical sciences. The student will be assigned to members of the participating science departments as laboratory assistants. Fall, Spring. Credit, 2 semester hours.

350. The Teaching of Science in the Middle Grades (6-9)

Prerequisite: Junior Standing.

Purposes, methods, materials, and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials appropriate for teaching science in the middle grades. Fall, Spring. Credit, 3 semester hours.

400. Teaching Science in the Secondary School

Prerequisites: SCE 300, 301.

Purposes, methods, materials and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials. Spring, Credit, 3 semester hours.

POLITICAL SCIENCE
Chairman: ROBERT O. SCHNEIDER

MICHAEL R. HAWTHORNE
EMMETT N. LOMBARD

ELIZABETH L. NORMANDY
FRANK J. TRAPP

Political Science is the systematic study of politics. In its broadest sense politics includes the decision-making and decision-enforcing processes concerned with the use of valued resources for any group that makes and enforces rules for its members. In this department the emphasis is upon the parts of these processes involving the government.

The Department of Political Science seeks to follow the aims of the liberal arts tradition. It also seeks to provide political science students with an educational background which will prepare them for a wide range of career opportunities and which will be desired by prospective employers from the fields of Law, Foreign Service, Public Administration, Journalism, "Practical Politics," and Teaching.

Requirements for a Bachelor of Arts Degree in Political Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
PLS 100, Introduction to Political Science	3
PLS 101, Introduction to American National Government	3
At least one course from each of the following areas:	3
Theory, Philosophy and Methodology 213, 303, 333, or 418	
American Government and Politics 201, 202, 215, 301, 304, 305, 306, 310, 312, 317, or 402	3
Public Administration 210, 302, 319, 320, or 331	3
Comparative Government and Politics 200, 275, 321, 370, or 420	3
International Politics 251, 354, 380, 430, or 452	3
And fifteen additional hours of Political Science	15
Electives	41
Total	128

**Requirements for a Bachelor of Arts Degree in Political Science:
International Studies Option**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50

Major Requirements	36
PLS 100, 101, 200, 251, 370, and 451 or 452	
6 additional courses chosen in consultation with the International Studies advisor	
Electives	41
Total	128

Requirements for a Bachelor of Arts Degree in Political Science: Pre-law Major

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	21
PLS 100, 101, 303, 310, 312, 317, 333	
One course from among:	
Comparative Government and Politics	3
200, 275, 321, 370, or 420	
and	
International Politics	
251, 355, 380, 430, or 452	
and	
Three additional courses in Political Science	9
Electives**	41
Suggested:	
CMA 101, 225, 302; PHY 100, 101	
Total	128

Requirements for a Bachelor of Arts Degree in Political Science: Public Administration Major

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	30
PLS 100, 101, 201 or 202, 210, 302, 319, 320, 333, 360, 361	
One course from among:	
International Politics	3
251, 355, 380, 430, or 452	
and	
One additional course in Political Science	3
Electives	41
Strongly Recommended:	
ECN 201, 202; PLS 331	
Suggested:	
BUS 227, 228	
Total	128

*Students who plan a major in Political Science should consult with the Department Chairman prior to registering for Basic Studies courses.

**Chosen in consultation with the pre-law advisor.

**Requirements for a Bachelor of Arts Degree in Political Science:
Public Administration Option with Applied Gerontology Minor**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	30
PLS 100, 101, 201 or 202, 210, 302, 319, 320, 333, 360, 361	
(At least one internship must be completed under the auspices of an institution or agency whose primary function is related to the elderly population.)	
One course from among:	
International Politics	
PLS 251, 355, 380, 430, or 452	3
One additional course in Political Science	3
Applied Gerontology Minor	18
Required Courses	
BIO 103, 300; or SOC 270; PSY 305; REC 425; SOC 375; SWK 384	
Electives	23
Suggested:	
SOC 280; SWK 250, 348	
Total	128

Requirements for a Minor in Public Administration:

	Sem. Hrs.
Required Courses	
PLS 100 Introduction to Political Science	
or	
PLS 101 Introduction to American National Government	3
PLS 201 American State Government	
or	
PLS 202 Local Government in the United States	3
PLS 210 Introduction to Public Administration	3
PLS 302 Administration of Municipal Government	3
PLS 319 Public Policy and Analysis	3
PLS 320 Comparative Public Administration	3
Three Additional hours of Political Science	3
Total	21

The department believes that there are many students majoring in Business Administration and Economics, Education, Sociology, and other disciplines who may someday seek employment in some administrative position in the public sector. While not wishing to major in political science, these students would benefit from a structured set of courses outlining the operations and problems of the administrator of a public agency. Even if the student never seeks employment as public administrator, the department believes that exposure to these courses within the public administration minor will help the student to perform their private sector administration roles more capably, especially since the growth of government has created numerous points of contact between public sector and private sector administrators.

Requirements for a Minor in Legal Studies:

Required Courses	Sem. Hrs.
PLS 100 Introduction to Political Science	
or	
PLS 101 Introduction to American National Government	3
PLS 303 Political Thought	
PLS 310 Constitutional Law	3
PLS 312 Law of Criminal Procedure	3
PLS 317 Judicial Process and Behavior	3
Three additional hours of Political Science	3
Total	18

The minor in legal studies is designed to accommodate the student who is majoring in some other discipline and also quite interested in going to law school and pursuing a legal career. This allows the student to concentrate in a particular area of expertise within which he or she plans to specialize once the student begins to practice law. Rather than require the student to major in political science, the minor in Legal Studies gives the student more flexibility to pursue other interests while receiving a sound preparation for law school study.

Requirements for a Minor in Political Science:

Required Courses	Sem. Hrs.
PLS 100 Introduction to Political Science	
or	
PLS 101 Introduction to American National Government	3
PLS 303 Political Thought	3
Twelve additional hours of Political Science	12
Total	18

This third minor is less structured than the other minors because the department wishes to accommodate the student who enjoys political science, but who does not wish to pursue a major because of other career or vocational goals. With the exception of a required course in Political Thought the department wishes to encourage the student to take an "eclectic" approach and enroll in courses that discuss topics of interest to the student so that the individual needs of the student will be better met.

Academic Concentration in Political Science

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Political Science Department offers an Academic Concentration of 27 hours. This Academic Concentration is available to other students, regardless of major.

Required Courses

Course Number	Course Title	Semester Hours
PLS 100	Intro. to Political Science	3
PLS 101	Intro. to American National Government	3

Choose seven of the following:

PLS 303	Political Thought	3
PLS 210	Intro. to Public Administration	3
PLS 200	Intro. to Comparative Politics	3
PLS 251	Intro. to World Politics	3
PLS 215	North Carolina Politics and Government	3
PLS 317	Judicial Process and Behavior	3
PLS 319	Public Policy and Analysis	3
PLS 304	Legislative Process	3
PLS 306	The American Presidency	3
		<hr/>
		Total 27

The Department of Political Science participates in the interdepartmental minor in the World Studies Program. For further details on this minor see **Special Programs** section.

The Department of Political Science participates in the interdepartmental minor in the program in Personnel and Organizational Leadership. For further details on this minor see **Special Programs** section.

COURSES (PLS)

INTRODUCTION

100. Introduction to Political Science

A study of general political science concepts, definitions, and approaches within the framework of discussions of how individuals and groups may be able to utilize more effectively the political, social, and economic systems with which they come into contact. Fall, Spring. Credit, 3 semester hours.

101. Introduction to American National Government

An introductory study of: (1) the basic concepts of political science, (2) the brief history of the basic principles of the Constitution, (3) the structure, functions of and the relations between the legislative, executive and judicial branches of the national government, and (4) the relations between the national and state governments. Fall, Spring. Credit, 3 semester hours.

THEORY, PHILOSOPHY, AND METHODOLOGY

213. Contemporary Political Ideologies

A study of twentieth century ideologies, including liberalism, conservatism, nazism, fascism, communism, democratic socialism, and more recent doctrines such as third world nationalism, minority liberation, women’s liberation, and the new left. As announced. Credit, 3 semester hours.

303. Political Thought

Prerequisite: PLS 100 or 101.

A study of the historic and conceptual background of political thought from the classical through contemporary political thinkers. Emphasis is placed on the application of ideas and concepts learned to current political and personal situations so as to enable the student to function better and more thoughtfully as an individual and as a member of various social and political systems. Spring, odd-numbered years. Credit, 3 semester hours.

333. Introduction to Theory and Methodology

Prerequisite: PLS 100 or 101.

This course concerns basic concepts of political science and teaches the student how to do research, use the library, evaluate the research of others, draw a graph, construct a table, and use a few simple statistical techniques. Fall, even years. Credit, 3 semester hours.

393. Census Data for Social Sciences and Business

Prerequisite: MAT 105 or 107 or permission of instructor.

An introduction to accessing, analyzing, and interpreting census data. Emphasis is placed on using census data for research in social science, marketing, and related fields. As announced. Credit, 1 semester hour.

418. Special Topics in Theory, Philosophy, and Methodology

Prerequisite: PLS 100 or 101.

An in-depth study of a selected topic from the field of political philosophy or methodology. Fall, odd-numbered years. Credit, 3 semester hours.

DIRECTED RESEARCH AND INDEPENDENT STUDY**398. Directed Research in Political Science I**

Prerequisite: PLS 100 or 101.

Written acceptance by a supervising faculty member is required, based on the student's written proposal. A copy of the proposal together with the faculty member's acceptance must be submitted for approval to the Department Chairman prior to registration. Fall or Spring. Credit, 1-3 semester hours.

399. Directed Research in Political Science II

Prerequisite: PLS 100 or 101.

Written acceptance by a supervising faculty member is required, based on the student's written proposal. A copy of the proposal together with the faculty member's acceptance must be submitted for approval to the Department Chairman prior to registration. Fall or Spring. Credit, 1-3 semester hours.

499. Independent Study in Political Science

Directed reading and research under the guidance of the instructor in a specific area or problem in political science. Scheduled only for senior political science majors with the approval of the Chairman of the Department. Fall or Spring. Credit, 1-3 semester hours.

AMERICAN GOVERNMENT AND POLITICS**201. American State Government**

Prerequisite: PLS 100 or 101.

An examination of the setting, institutions, politics, and policies of state governments in the United States. Fall, alternate odd-numbered years, beginning 1989. Credit, 3 semester hours.

202. Local Government in the United States

Prerequisite: PLS 100 or 101.

An examination of the setting, institutions, politics, and policies of local government in the United States. Fall, alternate odd-numbered years, beginning 1989. Credit, 3 semester hours.

215. North Carolina Politics and Government

Prerequisite: PLS 100 or 101.

A study of the North Carolina political system: its environment, the forces and elements making up the system, the policies of that system, and the impact of the policies. Fall or Spring. Credit, 3 semester hours.

301. Political Parties and Interest Groups in the United States

Prerequisite: PLS 100 or 101.

The history, development, organization, functions and purposes of the major parties and interest groups, and the role played by them in the policy-making and election of the government. Fall, alternate even-numbered years, beginning 1990. Credit, 3 semester hours.

304. Legislative Process in the United States

Prerequisite: PLS 100 or 101.

A study of: (1) the distribution of the legislative power in the three branches of the government, (2) the structure and functions of the legislature, (3) the actual process of legislation both in the national and state governments, its defects and remedies, and (4) the attainment of responsible and responsive government. Important legislative problems will be selected and will serve as a basis for analyzing the legislative process. Spring, alternate even-numbered years, beginning 1990. Credit, 3 semester hours.

305. Public Opinion and Electives in the American Political System

Prerequisite: PLS 100 or 101.

A study of the nature of public opinion, campaigns, and elections and their functions in the American political system. Fall, alternate even-numbered years, beginning 1988. Credit, 3 semester hours.

306. The American Presidency

Prerequisite: PLS 100 or 101.

The central role of the American presidency in the political process and the relationship among the presidency and the other branches of government. Spring, alternate even-numbered years, beginning 1988. Credit, 3 semester hours.

310. Constitutional Law

Prerequisite: PLS 100 or 101.

A study of: (1) the federal system, especially the relations between the national government and the States, (2) the jurisdiction of the federal courts and (3) individual rights. Spring. Credit, 3 semester hours.

312. Law of Criminal Procedure

Prerequisite: PLS 100.

Constitutional limitations on police activity. Due process; right to counsel; arrest, search and seizure; electronic eavesdropping; confessions; and the scope of exclusionary rules. Fall. Credit, 3 semester hours.

317. Judicial Process and Behavior

Prerequisite: PLS 100 or 101.

An examination of the role of judges, lawyers, and jurors in the decision-making process as influenced by their recruitment and socialization of the political frame-work in which they operate, and the various factors, ideology, attitudes, and values that influence their decisions. Fall, even-numbered years. Credit, 3 semester hours.

402. Selected Topics in American Government

Prerequisite: PLS 100 or 101.

A study of selected problems, either in theory or in practice, in American government, with readings, discussions and papers on these problems. Fall or Spring. Credit, 3 semester hours.

405. Washington Legislative Internship

Prerequisite: PLS 304.

This internship presents an opportunity for a student to get a deeper understanding of the legislative process by participating in the activities of a U.S. Congressman's office. The intern will spend a semester in Washington, D.C. working in the office of a Congressman and will be responsible for performing assigned research on legislative issues as well as working on constituency problems. Students will be assigned reading material on the legislative process and will be required to submit various papers in order to fulfill the internship requirements. The internship is limited to Political Science majors. No more than six credit hours may be applied to fulfill the thirty-six hour requirement for a major in political science nor is the student eligible to enroll in any other departmental internship program (PLS 360, 361, or 364). Scheduled for political science majors with the approval of the Chairman of the Department. Credit, 6-12 semester hours.

PUBLIC ADMINISTRATION**210. Introduction to Public Administration**

Prerequisite: PLS 100 or 101.

An introductory study of general principles and problems of administrative organization in government: federal, state, and local. The role, relationships, processes, and control of governmental institutions, in the political context, with special emphasis on the American experience, will be surveyed. Spring, even-numbered years. Credit, 3 semester hours.

302. Administration of Municipal Government in the United States

Prerequisite: PLS 100 or 101.

A study of American municipal government in its setting and development, power and politics, management process, administration of services, social and economic problems, planning, fiscal problems and practices, intergovernmental relations, and emerging trends. Spring. Credit, 3 semester hours.

319. Public Policy and Analysis

Prerequisite: PLS 100 or 101.

This course seeks to explore both the causes and consequences of public policy, i.e., both policy determination and policy impacts. The former is concerned with political, economic, social, environmental or other factors which are hypothesized to be political determinants. The latter is concerned with social, economic, political, or other conditions which are hypothesized to be policy impacts. Fall, even-numbered years. Credit, 3 semester hours.

320. Comparative Public Administration

Prerequisite: PLS 100 or 101.

Examination and analysis are made of the administrative systems of foreign governments of selected Western and non-Western countries; attention is given to practices applicable to administration in the United States. Spring, even years. Credit, 3 semester hours.

331. Public Finance (ECN 330)

Prerequisite: ECN 201, 202.

A study of revenue and expenditure on all governmental levels in the United States. Spring, odd numbered years. Credit, 3 semester hours.

360. Introductory Internship in Public Administration

Prerequisite: PLS 100 or 101.

The acquisition of public management experience through an arranged internship in a government or community agency or enterprise, under the instruction and supervision of the major professor and a designated official of the agency or enterprise involved. Fall or Spring. Credit, 3 semester hours.

361. Advanced Internship in Public Administration

Prerequisite: PLS 360.

This is a continuation of the internship of PLS 360. It continues the acquisition of public management experience through an arranged internship in a government or community agency or enterprise, under the instruction and supervision of the major professor and a designated official of the agency or enterprise involved. Fall or Spring. Credit, 3 semester hours.

364. Practicum in Public Administration

Restriction: Open to majors in Political Science only.

Prerequisite: PLS 100 or 101, and consent of instructor and departmental chairman.

This course provides students with management experience of at least 80 working days with regular wages provided by a government or community agency. Working under the supervision of a professor and a designated official of the agency, students produce an extended report exploring a concern of the agency. As announced. Credit, 6 semester hours.

COMPARATIVE GOVERNMENT AND POLITICS

200. Introduction to Comparative Politics

Prerequisite: PLS 100 or 101.

This course introduces the subject matter of comparative politics by examining different types of political systems such as a West European parliamentary democracy, a third world authoritarian state, and a totalitarian communist system. Fall. Credit, 3 semester hours.

275. Politics in the Developing World

Prerequisite: PLS 100 or 101.

This course introduces the student to the politics of underdeveloped countries. Special emphasis is placed on the study of nationalism, revolution, economic development, and political modernization. Spring, odd-numbered years. Credit, 3 semester hours.

321. Soviet Government

Prerequisite: PLS 100 or 101.

A study of the government that emerged after the Revolution of 1917, emphasizing the subsequent power struggle and gradual development of the U.S.S.R. Fall or Spring. Credit, 3 semester hours.

370. Comparative Political Area Studies

Prerequisite: PLS 100 or 101.

An examination of the cultural and political ideas, institutions and forms of government in a specific geographic region. Far Eastern, Middle Eastern, African, Latin American, West European, and East European governments are possible areas for examination in this course. The area of study and specific focus will rotate. As announced. Credit, 3 semester hours.

420. Special Topics in Comparative Politics

Prerequisite: PLS 100 or 101.

An in-depth study of a selected topic from the field of comparative politics. Spring and Fall, odd-numbered years. Credit, 3 semester hours.

INTERNATIONAL ORGANIZATION, RELATIONS, AND LAW**251. Introduction to World Politics (WLS 251)**

Prerequisite: PLS 100 or 101.

An analysis of politics and relations among nations: (1) sovereignty, (2) domestic jurisdiction, (3) status quo, (4) colonialism, (5) balance of power, (6) alliance and neutrality, (7) peaceful adjustment of disputes, (8) disarmament, (9) standards of international conduct, (10) economic development and political advancement of the developing countries. Fall. Credit, 3 semester hours.

252. Theories of International Relations

Prerequisite: PLS 100 or 101.

Analyzes the methods and dominant approaches to the study of international relations including international political economy, theories of conflict, decision-making theory, integration theory and deterrence. Spring. Credit, 3 semester hours.

355. International Relations Area Studies

Prerequisite: PLS 100 or 101.

An analysis of the foreign policies of a specific geographic region involved presently or potentially in global conflicts, with special attention to the role of the United States in the area. Possible areas for examination in this course include Africa, Latin America, the Middle East, the Far East, Western Europe, or the Soviet Union and Eastern Europe. As announced. Credit, 3 semester hours.

380. The Politics of World Order

Prerequisite: PLS 100 or 101.

A study of the general approaches to world order with special attention given to the management of that order through the workings of international law and organizations. Spring, even-numbered years. Credit, 3 semester hours.

410. National Security Policy

Prerequisite: PLS 100 or 101.

An analysis of the security policies of major international sectors including basic concepts and principles, the external environment, the internal policymaking process, the role of the national leaders and institutions in policymaking and an in-depth analysis of selected policies. Spring. Credit, 3 semester hours.

430. Special Topics in International Politics

Prerequisite: PLS 100 or 101.

An in-depth study of a selected topic in the field of international politics. As announced. Credit, 3 semester hours.

451. Formulation and Conduct of American Foreign Policy

A study of the process of foreign policy-making focusing on the roles of the President, Congress, the Departments of State and Defense, the media and public opinion. Fall. Credit, 3 semester hours.

452. Problems in American Foreign Policy

Prerequisite: PLS 100 or 101.

A study of major issues and problems in American foreign policy, including tradition and other constant factors of policy making, and with major emphasis on the post-World War II period. Spring. Credit, 3 semester hours.

HISTORY

Chairman: DAVID K. ELIADES

ROBERT W. BROWN*
LOREN L. BUTLER, II
JOHN CHAY

BRUCE J. DeHART
KATHLEEN C. HILTON
JEROME A. McDUFFIE
WILLIAM P. TURNER

*Social Studies Education Coordinator

History is a liberating discipline. Through the study of the political, social, and cultural aspects of modern society and the rise and development of major civilizations, an individual is able to expand his or her insights into the human experience and achievement. The study of history enables the individual to understand the major issues which confront society and make possible a more reasoned and intelligent response to these problems.

The Department offers preparation to individuals intent upon almost every career and profession. While the Department offers a sound foundation for students who wish to teach history and other social studies, it also prepares students to continue with graduate or special work in history. Courses offered by the Department likewise provide a background for students who wish to study law, enter government service, or obtain a background for other professions.

Programs of study offered by the Department of History include a major and a minor in History, a certification program in Secondary Social Studies Education, a 6-9 Social Studies program in Middle Grades certification candidates, and an Academic Concentration in history for prospective teachers.

History majors will be assigned an advisor whose responsibility it is to help students plan their program. History majors must have the approval of their advisor to register for advanced history courses.

While the History Department does not require a foreign language, students planning graduate study in history should acquire a reading knowledge of one modern foreign language and take History 451 (Senior Seminar).

Requirements for a Bachelor of Arts Degree in History

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	36
Basic History (100 and 200 level courses)	(12)
Four courses from HST 101, 102, 126, 127, 210, and 250	

Advanced History (300 and 400 level courses)	(24)
Option 1	
Two courses each from the American and Euro- pean areas; one course from the Latin American, Canadian, and non-Western area; HST 435 or HST 451; and two electives.	
Option 2	
Approval of Contract	
HST 435 and HST 451; six approved electives.	
Electives	41
Total	128

Requirements for a Bachelor of Arts in History: Secondary Social Studies Education

The Department of History offers a program of study that prepares students for certification by the North Carolina State Department of Public Instruction as teachers of the Social Studies in grades 9-12. This program has four major components: Basic Studies, the History major, a collateral requirement in the Social Studies, and Professional Education coursework. Certification candidates must complete satisfactorily the Basic Studies requirements of the University and the requirements for a B.A. in History established by the Department. The History major for certification candidates, although identical with the major followed by non-certification History majors in structure and the number of hours required, requires the prospective teacher to take courses that specifically prepare him/her to teach History in a secondary school setting. Accordingly, the History major for certification candidates identifies certain courses as required and limits the number of courses from which the student may choose his/her electives. Certification candidates must also satisfy the Social Studies requirement, a literature requirement, the Professional Education requirements needed for certification, and the competency requirements established by the State Board of Education. Additionally, students seeking admission to this program must meet the criteria listed on pages 77-79 for admission to the Teacher Education program and for admission to the Professional Semester. Students planning to earn a Bachelor of Arts in History: Secondary Social Studies Education should, therefore, be aware that this program requires preparation in addition to that required for the Bachelor of Arts in History without certification. Except for courses listed as professional credits for teacher certification, the additional courses required in the Secondary Social Studies Education program, when overlap or duplication occurs, may also satisfy the Basic Studies requirements of the University. Students seeking Secondary Social Studies certification must meet with the Secondary Social Studies Coordinator in the History Department before registering for any courses.

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Certification candidates are required to take six semester hours in Literature; choose from the following: American Literature (CMA 220, 221); or English Literature (CMA 246); or World Litera- ture (CMA 205, 206); or Introduction to Literature (CMA 203)	

History Requirements	30-36*
Basic History (100 and 200 level courses)	(12)
HST 101, 102, 127, and 250	
Advanced History (300 and 400 level courses)	(24)
Six semester hours from HST 305, 306, 310, 314, 315, 316, 341, 360, 410, and 413.	
Six semester hours from HST 321, 323, 327, 329, 332, 421, 427, 432, and 433.	
Three semester hours from HST 344, 351, 372, 386, and 394.	
HST 435 or HST 451	
Guided Electives: HST 317 and one additional advanced history course from those listed above (excluding HST 435 and 451).	
Social Studies Requirement	15-27**
ECN 201; GGY 101 or 102 or 200; PLS 100 or 101; SOC 101 or 201; SOC 105; SSE 300 and 365.	
Six additional semester hours in one of the following fields: economics, geography, political science, or sociology. Courses listed as directed research, field work, independent study, and internship cannot be used to satisfy this requirement.	
Professional Education	25
EDN 202, 227, 308, 419, 430, 445, and 448; SSE 400	
Electives	7-0
	<hr/>
Total	128-139

*Six semester hours of history can be counted under Basic Studies.

**Twelve semester hours of social studies can be counted under Basic Studies.

ACADEMIC CONCENTRATION IN HISTORY

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the History Department offers an Academic Concentration in History. This Academic Concentration is available to other students, regardless of major. This Concentration of 27 semester hours offers the prospective teacher both breadth and depth of study. The required Core Courses (15 semester hours) in American History, North Carolina History, Modern European History in a Global Context, and Non-Western History provide a solid foundation of knowledge. The Elective Courses (12 semester hours) provide each student with the opportunity to select advanced History courses in areas of personal or professional interest. Six semester hours of this Academic Concentration count toward the University's Basic Study requirements. Students seeking certification to teach in the public schools of North Carolina are encouraged to select courses dealing with modern American, modern European, or modern world history.

Academic Concentration in History (27 hours)

A. Required Core Courses (15 sem hrs):

HST	101	3 sem hrs
HST	102	3 sem hrs
HST	127	3 sem hrs
HST	250	3 sem hrs
HST	317	3 sem hrs

B. Elective Courses (12 sem hrs):

The student will choose, with the consent of his/her advisor, four (4) courses from the following: HST 305, 306, 310, 314, 315, 316, 321, 323, 327, 329, 332, 341, 344, 351, 360, 372, 386, 394, 410, 413, 421, 427, 432, and 433.

Students seeking Middle Grades (6-9) certification in the Social Studies must complete, in addition to the Academic Concentration, a program of collateral courses in the Social Sciences. For additional information concerning Middle Grades certification in the Social Studies, see below.

MIDDLE GRADES (6-9) CERTIFICATION IN SOCIAL STUDIES

The Social Studies Program (Grades 6-9) provides the prospective Middle Grades teacher with a balanced interdisciplinary program of study in History and the Social Sciences. Designed specifically to meet the guidelines established by the North Carolina Department of Public Instruction and to prepare certification candidates to teach the Social Studies subjects prescribed for the public schools of North Carolina, the comprehensive program features study in Anthropology, Economics, Geography, History, Political Science, and Sociology.

For students who select an Academic Concentration in History, the Middle Grades (6-9) certification program in the Social Studies consists of two parts: the Academic concentration in History and collateral courses in the Social Sciences that satisfy State Department of Public Instruction guidelines. Eighteen hours of the coursework required for this program may be applied to Pembroke State University's Basic Studies requirements.

1. Academic Concentration in History (27 hours):

A. Required Core Courses (15 sem hrs):

HST 101	3 sem hrs
HST 102	3 sem hrs
HST 127	3 sem hrs
HST 250	3 sem hrs
HST 317	3 sem hrs

B. Elective Courses (12 sem hrs):

The student will choose four (4) courses from the following. HST 305, 306, 310, 314, 315, 316, 321, 323, 327, 329, 332, 341, 344, 351, 360, 372, 386, 394, 410, 413, 421, 427, 432, and 433.

2. Collateral Courses in the Social Sciences (18 sem hrs):

ECN 201	3 sem hrs
PLS 101 or PLS 101	3 sem hrs
GGY 101, 102, or 200 (Select 2 GGY courses)	6 sem hrs
SOC 101 or SOC 201	3 sem hrs
SOC 105	3 sem hrs

Program Summary

- | | |
|---|------------|
| 1. Academic Concentration in History
(Overlap with Basic Studies: 6 sem hrs) | 27 sem hrs |
|---|------------|

- | | |
|---|------------|
| 2. Collateral Courses in the Social Sciences) | 18 sem hrs |
| (Overlap with Basic Studies: 12 sem hrs) | |

Overlap with Basic Studies	45 sem hrs
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	-18 sem hrs
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Total Hours Beyond Basic Studies	27 sem hrs
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For students who select an Academic Concentration other than History and who seek Middle Grades (6-9) Certification in the Social Studies, the following program of study must be completed. Where overlap occurs, required courses may be counted for Basic Studies, the Academic Concentration, and Middle Grades (6-9) Certification in the Social Studies.

- | | |
|---|---------------|
| 1. Academic Concentration (must be in
Geography, Political Science, or
Sociology) | 24-27 sem hrs |
| 2. Collateral Courses in the Social Studies: | |
| SOC 101 or SOC 201 | 3 sem hrs |
| SOC 105 | 3 sem hrs |
| PLS 100 or PLS 101 | |
| (PLS 101 is recommended) | 3 sem hrs |
| HST 101, 102, 127, 250, and 317 | 15 sem hrs |
| GGY 101, 200, or 202 | |
| (Select 2 GGY courses) | 6 sem hrs |
| ECN 201 | 3 sem hrs |
| | 33 sem hrs |

Program Summary:

- | | |
|---|---------------|
| 1. Academic Concentration in a Social Science | 24-27 sem hrs |
| 2. Collateral Courses in the Social Sciences | 33 sem hrs |
| | 57-60 sem hrs |

Students seeking Middle Grades (6-9) Certification in the Social Studies may wish to consider combining it with 9-12 Social Studies certification. With careful planning and advisement, a student will be able to complete both programs, thereby enhancing his/her prospects for employment. Students interested in combining 6-9 Social Studies Certification with 9-12 certification in the Social Studies should see the Secondary Social Studies Coordinator in the History Department.

Students seeking Middle Grades (6-9) Certification in the Social Studies must consult with the Secondary Social Studies Coordinator in the History Department before registering for courses; checksheets for the Middle Grades Social Studies program are available from the Coordinator.

Requirements for a Minor in History

18 hours of history, of which 12 hours must be in 300 and 400 level courses.

COURSES

HISTORY (HST)

INTRODUCTORY COURSES

101. American Civilizations to 1877

A survey of the major political, economic, social, and cultural developments in the United States to 1877, with some attention to Canada. Fall, Spring. Credit, 3 semester hours.

102. American Civilizations since 1877

A survey of the major political, economic, social, and cultural developments in the United States since 1877, with some attention to Canada. Fall, Spring. Credit, 3 semester hours.

126. Early European Civilization through 1648

A survey of early European civilizations from their pre-Greek origins through 1648. Fall, Spring. Credit, 3 semester hours.

127. Modern European Civilization in a Global Context

A survey of major trends in European social, economic, cultural, and political history since 1648. Historical developments within modern Europe are viewed from a global perspective. Fall, Spring. Credit, 3 semester hours.

210. History of the American Indian (AIS 210)

A survey of the major Indian cultures of North America with emphasis on those located in the eastern half of the United States. Fall, Spring. Credit, 3 semester hours.

250. Modernization in Global Perspective

An examination of Latin American, African, and Asian civilizations as they undergo modernization. Fall. Credit, 3 semester hours.

U.S. HISTORY

305. United States History: The Colonial Period, 1607-1763

Prerequisite: Permission of instructor.

A study of the American colonial experience to the end of the French and Indian war. Fall. Credit, 3 semester hours.

306. United States History: The Revolutionary and Early National Period, 1763-1844

Prerequisite: Permission of instructor.

A study of the major political, economic, social, and cultural developments from 1763 to 1844. Spring. Credit, 3 semester hours.

310. United States History: Sectionalism, Civil War, and Reconstruction, 1844-1877

Prerequisite: Permission of instructor.

A thematic and topical study of American history from 1844 to 1877 with an emphasis on sectionalism, the Civil War, and Reconstruction. Spring. Credit, 3 semester hours.

314. United States History: The Gilded Age and Progressivism, 1877-1912

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions from 1877-1912. Fall, Spring. Credit, 3 semester hours.

315. United States History: War, Prosperity, and Depression, 1912-1945

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions from 1912-1945. Fall, Spring. Credit, 3 semester hours.

316. United States History: Recent America, 1945-Present

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions since 1945. Fall, Spring. Credit, 3 semester hours.

317. History of North Carolina

Prerequisite: Permission of instructor.

A study of selected phases of the development of North Carolina from its colonial beginnings to the present. Fall, Spring. Credit, 3 semester hours.

341. U.S. Economic History (ECN 341)

Prerequisite: Permission of instructor.

A thematic study of the economy of the United States from colonization to the present. Spring. Credit, 3 semester hours.

360. Afro-American History

Prerequisite: Permission of instructor.

A treatment of the Black people in American history from their African origins to the present. Fall. Credit, 3 semester hours.

378. The American West: Myth and Reality (CMA 378)

Prerequisite: Permission of instructor.

An interdisciplinary study of the American West through films, literature, and history. Although the course will emphasize the events of the period from 1850 to 1890, it will also attempt to show the influence of the West as a concept down to the present. Spring. Credit, 3 semester hours.

380. Women and the Development of U.S. Society

An in-depth study of U.S. women's history from the colonial period to 1870. Fall. Credit, 3 semester hours.

381. Women in U.S. History, 1870-Present

An exploration of significant aspects of continuity and change in U.S. women's education, health care, family roles, employment options, and political participation since 1870. Spring. Credit, 3 semester hours.

382. Childhood and Adolescence in Historical Perspective

An historical investigation of continuity and change in childhood as a life stage, with emphasis on patterns in the experience of growing up in the United States and the social construction of adolescence during the 20th Century. Spring. Credit, 3 semester hours.

406. U.S. Military History (MSC 421)

Prerequisite: Permission of instructor.

A survey of American military policies and operations from 1776 to the present with emphasis on World War II, the Cold War, Korea, and Viet Nam. Fall or Spring. Credit, 3 semester hours.

410. U.S. Social History

Prerequisite: Permission of instructor.

A study of the evolution of American society from colonial times to the 20th Century, including emphasis on patterns of daily life, social structure, and reform movements. Fall or Spring. Credit, 3 semester hours.

413. History of U.S. Foreign Policy

Prerequisite: Permission of instructor.

A study of the major trends, issues, and problems in U.S. foreign policy. Fall, Spring. Credit, 3 semester hours.

EUROPEAN HISTORY**321. Ancient History**

Prerequisite: Permission of instructor.

A survey of ancient history from the beginnings of civilization to A.D. 500. Fall. Credit, 3 semester hours.

323. The Middle Ages

Prerequisite: Permission of instructor.

A survey of the development of western cultures from the fall of Rome to the Renaissance. Fall. Credit, 3 semester hours.

324. Byzantine and Islamic History

Prerequisite: Permission of instructor.

A survey of the history of the Mediterranean world from A.D. 284 to A.D. 1453. Spring. Credit, 3 semester hours.

327. Early Modern Europe, 1500-1789

Prerequisite: Permission of instructor.

A survey of European history from the Renaissance to the French Revolution. Fall. Credit, 3 semester hours.

329. Revolution, Liberalism, and Nationalism in Europe, 1789-1914

Prerequisite: Permission of instructor.

A survey of European civilization from the French Revolution to the outbreak of the First World War. Spring. Credit, 3 semester hours.

332. Twentieth Century Europe

Prerequisite: Permission of instructor.

A study of conflict and cooperation in an era of global war, with emphasis on the interaction of democracy, communism, fascism, and imperialism. Spring. Credit, 3 semester hours.

337. Modern European Economic and Social History

A survey of the European economy and social classes from the birth of capitalism to the present. Fall, Spring. Credit, 3 semester hours.

417. Modern English History

Prerequisite: Permission of instructor.

A survey of the major developments in English history from the establishment of the Tudor Dynasty (1485) to the present. Fall, Spring. Credit, 3 semester hours.

421. History of Modern Germany, 1866 to the Present

Prerequisite: Permission of instructor.

An analysis of German history from the era of Bismarck to the present, with special emphasis on the unification of Germany, the two world wars, the Nazi Revolution, and the problem of a divided Germany. Fall, Spring. Credit, 3 semester hours.

427. European Intellectual History since 1400

Prerequisite: Permission of instructor.

A study of the main currents of European thought, with special emphasis on the Renaissance, Reformation, Enlightenment, Liberalism, and Socialism. Fall, Spring. Credit, 3 semester hours.

432. A History of Imperial Russia from 1682 to 1917

Prerequisite: Permission of instructor.

An examination of Russia's political, social, economic, and cultural development from the reign of Peter the Great to the fall of the Romanovs in February 1917. Fall, Spring. Credit, 3 semester hours.

433. History of Soviet Russia, 1917 to the Present

Prerequisite: Permission of instructor.

An examination of Soviet Russia's development from the 1917 revolution to the present day, with special emphasis on Leninism, Stalinism, and post-Stalinism. Fall, Spring. Credit, 3 semester hours.

LATIN AMERICAN, CANADIAN, AND NON-WESTERN HISTORY**344. History of the Modern Far East**

Prerequisite: Permission of instructor.

A history of China, Japan, and Korea, with special attention to the problems of modernization. Fall, Spring. Credit, 3 semester hours.

345. The United States and the Far East

Prerequisite: Permission of instructor.

A study of the major factors and the processes concerning American involvement in the Far East from the beginning of the Republic to the present; to include the nature of the international system in the Far East and changing American interest and policies in the region. Fall or Spring. Credit, 3 semester hours.

351. History of the Modern Middle East

Prerequisite: Permission of instructor.

A study of the major trends and issues in the Middle East in the modern world. Fall, Spring. Credit, 3 semester hours.

372. History of South Asia

A study of the Indian subcontinent with an emphasis on cultural, social, and economic aspects; the Moslem and Mogul eras; the British period; and events since 1945. Fall. Credit, 3 semester hours.

385. Indians of Latin America (AIS 324)

A study of the history, culture and contemporary achievements of the Indians residing south of the Rio Grande. Fall. Credit, 3 semester hours.

386. Latin America Since Independence

Prerequisite: Permission of instructor.

An examination of Latin America from Independence to the present. Emphasis will be placed on the historic antecedents of current events and Latin America's place in World affairs. Fall. Credit, 3 semester hours.

394. History of Canada

Prerequisite: Permission of instructor.

A study of Canada from the early explorations and settlements to the present with special emphasis on the French and British in Canada, the advance from self-government to Confederation, and the relations of Canada with the United States and the British Commonwealth. Fall, Spring. Credit, 3 semester hours.

COLLOQUIA AND SEMINARS**402. Colloquium: Selected Topics in American History**

Prerequisite: Permission of instructor.

An investigation into selected topics in American history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

426. Colloquium: Selected Topics in European History

Prerequisite: Permission of instructor.

An investigation into selected topics in European history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

440. Colloquium: Selected Topics in Non-Western History

An investigation into selected topics in Non-Western history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

451. Senior Seminar

Prerequisite: 2.0 QPA in history courses taken, and completion of 15 hours of advanced history courses.

A study of special problems in a selected area of history with emphasis on historiography, methods, research, and writing skills. Fall, Spring. Credit, 3 semester hours.

GENERAL AND SPECIAL COURSES**370. Introduction to Public History**

Introduction to Public History

Prerequisite: Permission of instructor.

An introduction to the operation and problems of historical agencies, problems of preservation and exhibition, archives management, historical editing and publishing, historical sites, and the techniques and processes of public history. Fall. Credit, 3 semester hours.

399. Directed Reading in History

Prerequisite: Permission of instructor, completion of all lower division history requirements, and six hours of advanced history.

Directed reading under the guidance of instructor. Fall, Spring. Summer. Credit, 1-3 semester hours.

435. Topics in History

This course will focus on one topic of general interest and explore it in detail; the topic will be announced in the schedule of courses. Possible topics include: Revolution in the Modern World; Hitler and Nazi Germany; and the American Civil War. This course may be taken only once for credit. Spring. Credit, 3 semester hours.

455. Historical Sites Study

Prerequisite: Permission of instructor.

A conducted tour of selected historical sites with an emphasis on a particular period or geographical area of history. Cannot be used to satisfy requirements for history major. Summer. Credit, 2-6 semester hours.

483. Workshop: Selected Topics in History

A workshop designed to assist pre-service and in-service teachers in expanding their conceptual understanding of a selected topic in history. Instruction will center on an indepth investigation of the announced topic; special attention will be given to the problem of relating the announced topic to the secondary Social Studies curriculum in North Carolina. Summer. Credit, 3 semester hours.

499. Independent Study in History

Prerequisite: Permission of the Department.

Directed reading and research under the guidance of the instructor in a specific area or problem in history. Scheduled only for senior history majors with the approval of the Chairman of the Department. Fall, Spring. Credit, 1-3 semester hours.

SOCIAL STUDIES EDUCATION (SSE)

The courses in Social Studies Education are designed to help prospective teachers to develop the competencies needed in the classroom. These courses should be taken only after the student has given careful consideration to career objectives. The Social Studies Education courses are not history courses, and they cannot be used to meet history requirements.

300. Introduction to Teaching Social Studies in the Secondary School

Required of history majors seeking certification

Prerequisite: EDN 227 and 15 semester hours in history and social studies with a 2.5 average.

An overview of the social studies in the secondary school, an introduction to past and present trends in the social studies curriculum, and early field experiences for prospective teachers of the social studies. Such early field experiences include a planned and supervised program of observation and participation in the social studies classroom that introduces the certification candidate to the secondary student and the school setting. Fall, Spring. Credit, 3 semester hours.

365. Social Studies for the Secondary Teacher

Required of history majors seeking certification

Prerequisite: Thirty semester hours in history and social studies or permission of the instructor and SSE 300.

An introduction for the certification candidate to the nature, scope, objectives, source materials, and methodologies of the social studies (anthropology, economics, geography, history, political science, and sociology). The student is required to review representative curriculum materials and to integrate principles, concepts, and methods characteristic of the social studies that are appropriate for the secondary curriculum. Fall, Spring. Credit, 3 semester hours.

400. Methods of Teaching Social Studies in the Secondary School (EDN 400)

Required of history majors seeking certification.

Prerequisite: SSE 300, 365 and 30 hours in history with a 2.5 quality point average.

Materials and basic teaching strategies employed in teaching social studies in grades nine through twelve. Fall, Spring. Credit, 3 semester hours.

MATHEMATICS AND COMPUTER SCIENCE*Chairman:* GILBERT L. SAMPSON +

DONALD E. BEKEN
CAROL BREWER
JOSEPH W. GOLDSTON
WUU FANG JANG
OSCAR JONES
ROBERT LAMPHERE
FREDA LOCKLEAR

RAYMOND MCDANIEL
DAMON SCOTT
PHILLIP SLOAN
THOMAS STROMMER
CLIFFORD TREMBLAY
WILLIAM TRUMAN
ALAN YOST

+ Mathematics Education
Coordinator

Mathematics is a precise and demanding subject which has remained a central part of mankind's intellectual achievement for over three thousand years. Important not only in intellectual affairs but in practical matters as well, mathematics has assumed a greater and wider role in today's world with the development of the digital computer. The role of the computer has become and is increasingly more important in mankind's everyday and technological world. As such, computing has evolved into a science covering the study of languages, programming, and theoretical concepts. The Department offers courses covering both the intellectual and practical sides of mathematics, the ground between, and digital computing.

A student of the Department of Mathematics and Computer Science has the opportunity of earning a Bachelor of Science degree (B.S.) in either Mathematics or Computer Science or a Master of Arts in Education; Mathematics Education (M.A.Ed.). The Mathematics major also may choose to gain certification to teach mathematics at the secondary level, or to follow a track in computer science. The computer science major may also acquire concentrations in mathematics, physical science, or business. The Department offers minors in both mathematics and computer science and also cooperates with the Education Department in offering a concentration in mathematics for Middle Grades Education majors.

The Departmental faculty welcomes the opportunity to advise the major and non-major alike. Someone thinking of majoring in mathematics and computer science is especially urged to consult with the Department Chairman prior to registering for Basic Studies courses. All majors choose advisors and are urged to consult with them periodically in order to plan and carry out their program of study.

Most non-majors fulfill the Basic Studies requirements in mathematics by taking one of MAT 105, 106, 107 or 108. Well-prepared students may select MAT 109 or 221 for this purpose.

Requirements for a Bachelor of Science Degree in Mathematics: Major in Mathematics

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107 and 108, or MAT 109, or equivalent courses in secondary school; also MAT 220, 221, 222, 315, 316, 325, 431, and twelve additional semester hours of advanced mathematics	36-42
Electives	35-41
Total	128

Requirements for a Bachelor of Science Degree in Mathematics with Certification by the State to Teach Mathematics at the Secondary Level (see Teacher Education, p. 74, for Requirements.)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107** and 108**, or MAT 109***, or equivalent courses in secondary school; also MAT 220, 221, 222 315, 316, 325, 328, 402, 411, 431, CSC 202, and six additional semester hours of advanced mathematics	36-42
Professional Education Requirements	
EDN 202, 227, 308, 419, 430, 445, 448; MAT 250, 400	27
Electives	8-14
Total	128

Requirements for a Bachelor of Science Degree in Mathematics: Major in Computer Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107** and 108**, or MAT 109***, or equivalent. MAT 221*, 222*, 315, 328; CSC 155 or equivalent as determined by Placement Test; also CSC 215, 255, 275, 325, 355, 395, two courses, at least one 400 level, from CSC 365, 375, 385, 415, 425, 435, 445, 455, or 465; and three courses, at least one 400 level, from MAT 317, 322, 325, 327, 329, 330, 415, or 444	45-56
Electives	21-32
Total	128

*Students who plan a major in mathematics should consult with the Department Chairman prior to registering for Basic Studies courses.
**Counts toward six (6) hours of Basic Studies.
***Counts toward 4-6 hours of Basic Studies.

Requirements for a Bachelor of Science Degree in Computer Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	32-39
CSC 155 or equivalent as determined by Placement Test, CSC 215, 255, 275, 325, 355, 365, 375, 395; MAT 109*** or equivalent. MAT 221***, 222***, 315, 328.	
Four courses from one of the following categories:	12-14
Category I: Computer Theory	
Both: CSC 415, 435; two courses selected from CSC 425, 445, 465, MAT 327, PHY 356	
Category II: Computer Information Systems	
Both: CSC 385, 455; two courses selected from CSC 465, BUS 307, 308	
Category III: Computer Engineering	
CSC 200 and one of CSC 415 or 435; two courses from PHY 200, 201, 356, EGR 205	
Electives	24-33
Total	128

Requirements for an Academic Concentration in Mathematics

	Sem. Hrs.
MAT 107** and 108**, or MAT 109***, or equivalent courses in secondary school.	
MAT 220, 221, 222, 315, 328, 411	
CSC 202	23

Requirements for Certification in Mathematics for the B.S. in Middle Grades Education (6-9)

	Sem. Hrs.
Middle Grades Certification in Mathematics requires the Academic Concentration in Mathematics in addition to the following:	
MAT 106, 250, 300, 402	11

Requirements for a Minor in Mathematics

	Sem. Hrs.
MAT 221, 222, 315, 316; and three additional hours selected from advanced mathematics courses (300 or above)	18

Requirements for a Minor in Computer Science

	Sem. Hrs.
CSC 155 or equivalent as determined by Placement Test: CSC 215, 255, 275; one course from CSC 325 or 355; and at least one additional course from CSC 201, 325, 355, 365, 375, or 385	18

*Students who plan a major in Computer Science should consult with the Department Chairman prior to registering for Basic Studies courses.

**Counts toward six (6) hours of Basic Studies.

***Counts toward 4-6 hours of Basic Studies.

COURSES

MATHEMATICS (MAT)

104. Fundamentals of Mathematics

Development of basic skills in mathematics, emphasizing computational measurement and problem-solving skills. (Will not count toward graduation requirements). Fall, Spring. Credit, 3 semester hours.

105. Introduction to College Mathematics

Prerequisites: MAT 104 or appropriate score on the Mathematics Placement Examination. A study of the real number system and its applications. Introduction to sets, functions and algebraic concepts including simple equations, formulas, and graphing. Introduction to probability and statistics. Fall, Spring, Summer. Credit, 3 semester hours.

106. Foundational Concepts of Mathematics

Prerequisites: Appropriate score on Mathematics Placement.

A general concept course including such topics as sets, bases, modular arithmetic, and the development of real number system. Fall, Spring, and Summer. Credit, 3 semester hours.

107. College Algebra

A study of the real numbers, algebraic expressions and sets. First and second order equations, and first order inequalities and their graphs. Functions, exponents and logarithms. Fall, Spring, Summer. Credit, 3 semester hours.

108. Plane Trigonometry

Prerequisite: MAT 107.

Angular measure, solution of right triangles, trigonometric function values of any angle, fundamental trigonometric relations, graphs of the trigonometric functions, solution of oblique triangles, and logarithmic solution of triangles. Fall, Spring, Summer. Credit, 3 semester hours.

109. College Algebra and Trigonometry

Real and complex numbers, set, inequalities, functions and their graphs; polynomials, rational functions, and algebraic functions; exponential, logarithmic, and trigonometric functions. Analytic geometry. Fall, Spring. Credit, 4 semester hours.

118. Finite Mathematics

Prerequisite: MAT 107 or equivalent.

Set theory, symbolic logic, permutations and combinations, probability, conditional probability, matrices and systems of equations. Some applications to stochastic processes, Markov chains, linear programming, statistics. Fall, Spring, Summer. Credit, 3 semester hours.

201. Elements of Metric Geometry

Prerequisites: MAT 105, 106.

Designed to give the general student a complete overview of the measurement aspects of geometry from a Euclidean point of view. Topics include linear measurement, perimeter, area, volume, congruence, and similarity, symmetry, and transformations. Constructions using variety of approaches will receive particular emphasis. Fall, Summer. Credit, 3 semester hours.

210. Introduction to Statistics (SOC 210)

Recommended prerequisite: MAT 107.

Elementary statistical analysis using a computer-based statistics package and data. Measures of central tendency and variability; properties of the binomial, normal, and Poisson distributions; hypothesis testing and sampling; and regression analysis. A required one hour per week laboratory. Fall. Credit, 3 semester hours.

215. Calculus with Applications

Prerequisites: MAT 107 or MAT 109 or equivalent.

Required For: Biology Majors. Not open to Mathematics Majors.

A study of functions of one variable; derivatives, integrals and their applications to Biological Sciences and Business. Special attention will be given to exponential functions with respect to growth and decay applications. Topics of multivariant Calculus will also be included. Fall, Spring. Credit, 4 semester hours.

220. Point Set Theory

Prerequisite: MAT 107 or MAT 109 or equivalent.

Introduction to set theory, elementary concepts of the topology of the real line and the plane, elementary logic, and techniques of proof. Mathematics majors should take this course concurrently with Calculus I or Calculus II. Spring. Credit, 3 semester hours.

221. Calculus I

Prerequisites: MAT 107 and MAT 108, or MAT 109, or equivalent.

Study of functions of one variable, topics from analytic geometry, limits and continuity; differentiation of algebraic functions; curve sketching; various applications chosen from physics, economics, and optimization. Fall, Spring, Summer. Credit, 4 semester hours.

222. Calculus II

Prerequisite: MAT 221.

A study of integrals, the definite integral, the fundamental theorem of the calculus, applications of the definite integral. The derivative and integral of exponential, logarithmic, trigonometric and inverse trigonometric functions; and techniques of integration. Fall, Spring, Summer. Credit, 4 semester hours.

250. Introduction to Teaching Mathematics in the Secondary Schools

Prerequisites: EDN 227, MAT 221.

Designed to provide an overview of mathematics in the secondary school and early experiences for prospective mathematics teachers. These experiences include a planned program of observational and participatory experience in the mathematics classroom. Spring. Credit, 2 semester hours.

300. The Teaching of Mathematics in the Middle Grades (6-9)

Prerequisite: Junior Standing.

Required for: Mathematics concentration in The Middle Grades (6-9).

Presents modern techniques and methods of teaching mathematics in the middle grades (6-9). Laboratory work provides deeper understanding of mathematical concepts and experience with materials and methods appropriate for classroom use. As announced. Credit, 3 semester hours.

315. Linear Algebra I

Prerequisite: MAT 222.

An introduction to the theory of vector spaces, linear transformations, systems of linear equations, matrices, inverses, rank, determinants, inner products. Applications of matrices to problems involving systems of equations. Fall, Spring. Credit, 3 semester hours.

316. Intermediate Calculus

Prerequisite: MAT 222.

Selected topics from Calculus I and II from an advanced viewpoint. L'Hospital's rule, improper integrals, Taylor's theorem, infinite series. Multivariable calculus: limits, continuity, partial derivatives, extrema, iterated integrals, and applications. Fall, Spring. Credit, 4 semester hours.

317. Linear Algebra II

Prerequisite: MAT 315.

Eigenvalues and eigenvectors, similarity of matrices, reduction of matrices to diagonal form. Cayley-Hamilton theorem, minimum polynomial, Jordan canonical form. Hermitian, unitary, and normal matrices, orthonormal basis, Gram-Schmidt process. Simplification of quadratic forms and other applications. As announced. Credit, 3 semester hours.

322. Differential Equations

Prerequisite: MAT 316.

An introduction to ordinary differential equations including classification of solutions to differential equations, existence and uniqueness of solutions, power series methods, initial value problems, and applications. Spring. Credit, 3 semester hours.

325. Algebra I

Prerequisite: MAT 315.

Introduction to groups, integral domains, rings and fields, with further study of subgroups, cyclic groups, groups of permutations, isomorphisms and homomorphisms of groups, direct products, and factor groups. Spring. Credit, 3 semester hours.

326. Algebra II

Prerequisite: MAT 325.

Further topics in group theory; rings, integral domains, fields, ideals, quotient rings, homomorphisms, direct sums, polynomial rings, extension fields. Fall. Credit, 3 semester hours.

327. Numerical Analysis

Prerequisites: MAT 315, 316; CSC 200.

An introduction to the solution of mathematical problems by computational techniques, including both finite and iterative methods and error analysis. Spring. Credit, 3 semester hours.

328. Probability and Statistics I

Prerequisite: MAT 222.

Probability, sample spaces, counting techniques, random variables, discrete and continuous distribution functions, characteristic functions. Binomial, Poisson, and normal distributions. Central limit theorems. Fall. Credit, 3 semester hours.

329. Applied Mathematics

Prerequisite: MAT 315.

Introduction to mathematical modeling. Techniques and properties of discrete and continuous models. Case studies. Fall. Credit, 3 semester hours.

330. Probability and Statistics II

Prerequisites: MAT 316, 328.

An introduction to common theoretical distributions, central limit theorems, two dimensional random variables, sampling distributions, estimation, confidence intervals, hypothesis testing, regression theory and applications. Spring. Credit, 3 semester hours.

400. Methods of Teaching Mathematics in Secondary Schools (EDN 400)

Purposes, methods, materials, and evaluation procedures in teaching mathematics. Directed observation in public school mathematics classes. Preparation of teaching plans and materials. Accelerated. Spring. Credit, 3 semester hours.

402. A Historical Development of Mathematics

Prerequisites: MAT 222.

A study of the development of mathematics in its historical setting from its earliest beginnings to modern times. Note: This course may not be used as an Advanced Mathematics requirements for the Major in Mathematics. Spring. Credit, 3 semester hours.

411. College Geometry

Prerequisite or corequisite: MAT 315.

A study of the development of Euclidean geometry from the metric and synthetic approach and an introduction to non-Euclidean geometry. Fall. Credit, 3 semester hours.

431. Advanced Calculus I

Prerequisites: MAT 316, and MAT 220.

An introduction to modern mathematical analysis with careful attention to topics of elementary and intermediate calculus of one or more variables. Topics include convergence of sequences and series, mean value theorems, the Cauchy criterion, integrability. Fall. Credit, 3 semester hours.

432. Advanced Calculus II

Prerequisite: MAT 431.

A continuation of Advanced Calculus I including such topics as the total derivative of multivariable functions, transformations of R_n , representations of functions by series and integrals, and uniform convergence. Spring. Credit, 3 semester hours.

444. Complex Analysis

Prerequisite: MAT 316.

The complex numbers, analytic functions, conformal mappings, contour integration, Cauchy's theorem and integral formula. Taylor and Laurent expansions, residues, analytic continuation. Liouville's theorem. As announced. Credit, 3 semester hours.

448. Special Topics (Variable Title)

Prerequisites: Teaching certificate.

A study of special topics in mathematics or mathematics education. The selected topics will be an in-depth study of a content area or they will be selected over the breadth of a content area. As announced. Credit, 3 semester hours.

499. Independent Study

Offered for mathematics majors on approval of the Department Chairman. Credit, 1-3 semester hours.

COMPUTER SCIENCE (CSC)**100. Introduction to Computers**

The content of this course includes a discussion of computer hardware, computer software, the history of computing, and typical applications of computers. A significant amount of time is devoted to such applications as word processing, spreadsheets, data bases, and graphics. Additional topics for discussion include a brief introduction to computer languages, effects of computers on society and the individual, data communications, and artificial intelligence. Fall, Spring, Summer. Credit, 3 semester hours.

155. Foundations of Computing

Overview of the local computing environment. History of digital computers. Introduction to computer organization, data representation, and programming. Fall, Spring, Summer. Credit, 3 semester hours.

200. Introduction to Computer Programming—FORTRAN

Prerequisites: CSC 100, MAT 107, or permission of instructor.

A first course in programming using concepts of structural programming and algorithmic analysis with emphasis on scientific applications. Details of structured FORTRAN. As announced. Credit, 3 semester hours.

201. Introduction to Computer Programming—COBOL

Prerequisite: CSC 100 or permission of instructor.

A first course in programming using concepts of structured programming and algorithmic analysis with emphasis on data processing applications. Details of the COBOL language. As announced. Credit, 3 semester hours.

202. Microcomputer Programming

Prerequisites: CSC 100, or CSC 155, or permission of instructor.

A first course in microcomputer programming and operating systems, emphasizing both numeric and string processing, and structured programming. Details of the PASCAL and BASIC languages, using both IBM compatible and Apple microcomputers. Features of these two systems will also be compared. Fall, Spring, Summer. Credit, 3 semester hours.

215. Discrete Structures

Prerequisite: MAT 109 or equivalent.

Discrete structures with applications to Computer Science. Boolean algebra. Sets. Functions and relations. Propositional logic. Induction. Permutations and combinations. Finite state machines. Trees and graphs. Vectors and matrices. Fall, Spring. Credit, 3 semester hours.

255. Programming and Algorithms I

Prerequisite: CSC 155.

Introduction to programming. Pascal language. Representation of data, constants, and variables. Arithmetic and logical expressions. Simple I/O. Arrays. Subprograms. Searching, sorting, and merging. Techniques of problem solving. Stepwise refinement. Principles of documentation. Fall, Spring, Summer. Credit, 3 semester hours.

275. Programming and Algorithms II

Prerequisites: CSC 255 and MAT 109.

Principles of good programming style. Control flow. Debugging and testing. String processing. Further methods of searching and sorting. Recursion. Stacks and linked lists. Records and built-up data types. Fall, Spring, Credit, 3 semester hours.

325. Fundamentals of Computer Systems

Prerequisites: CSC 215 and CSC 275.

Computer structure, machine language, assembly language, and addressing modes. File structures and I/O. Memory management. Assemblers, linkers, and loaders. Fall. Credit, 3 semester hours.

355. Data Structures

Prerequisites: CSC 215 and CSC 275.

Design of algorithms. Graphs, paths, and trees. Analysis of algorithms for internal and external sorting, searching, and merging. Hashing. Algorithms for dynamic storage allocation. Fall, Spring. Credit, 3 semester hours.

365. Introduction to Computer Architecture

Prerequisite: CSC 325.

Basic logic design and sequential circuits. Digital storage and access. Study of a processor. Microprogramming. Alternate architectures. Spring. Credit, 3 semester hours.

375. Programming Languages

Prerequisite: CSC 325 and CSC 355.

An introduction to programming languages design and implementation. Survey of several major languages and their features. An emphasis on implementation details. Spring. Credit, 3 semester hours.

385. File Processing with COBOL

Prerequisites: CSC 325, CSC 355, and MAT 222.

File processing environment. Sequential access. External sort and merge algorithms. Random access methods. Trees, lists, inverted lists, multilists. Indexed sequential and hierarchical structures. COBOL language. Spring. Credit, 3 semester hours.

395. Introduction to Finite Automata

Prerequisite: CSC 325, CSC 355, and MAT 222.

Introduction to formal language theory, finite automata, regular expressions and regular grammars. Push-down automata and context-free grammars. Turing machines and context-sensitive grammars. Fall. Credit, 3 semester hours.

405. Current Topics in Computers in Education

Prerequisite: Permission of instructor.

Use of computers in Education. Discussion, use, and evaluation of computer software and hardware for the classroom. Applications to curriculum development. The course is designed as a service course for teachers and can be used only as a guided elective. It is not to be counted for the mathematics concentration at the graduate level. The course will include a required lab. As announced. Credit, 3 semester hours.

415. Translators and Compilers

Prerequisites: CSC 375, CSC 395.

Interpreters, assemblers, and compilers. Grammar, languages, syntax, semantics, and BNF. Parsing and symbol tables. One and two pass assemblers. Design of interpreters and compilers. Large programming project. Spring. Credit, 4 semester hours.

425. Advanced Software Project

Prerequisites: CSC 325, CSC 355, and MAT 222.

An assigned, individual, in-depth programming project including design, documentation, and testing. As announced. Credit, 3 semester hours.

435. Operating Systems

Prerequisites: CSC 365 and MAT 222.

I/O and interrupt structure, procedure activation. Monitors and kernels. System evaluation with elementary queuing, modelling, and statistical analysis. Memory management with paging, virtual memory, and multiprogramming. Process management, semaphores, deadlocks, and schedulers. Large programming project. Fall. Credit, 4 semester hours.

445. Theory of Computation and Algorithms

Prerequisites: CSC 325, CSC 355, and MAT 222.

Analysis of algorithms. Advanced data structures. Time and space complexity. Turing machines. Proof of correctness. An announced. Credit, 3 semester hours.

455. Systems Analysis and Design Project

Prerequisites: CSC 385.

Formal models of structured design and programming. Information hiding. Iterative enhancement. Structure of programming teams. Program libraries, walk-throughs and documentation. Development of a large software project by student teams. Spring. Credit, 4 semester hours.

465. Database Management Systems

Prerequisites: CSC 385.

Goals of DBMS including data independence, relationships, logical and physical organizations, schema, and subschema. Hierarchical, network and relational models. Examples of implementation. Data descriptor languages. Query facilities. File organization. Index organization. Data integrity and reliability. As announced. Credit, 3 semester hours.

495. Seminar in Computer Science

Prerequisites: CSC 325, CSC 355, and MAT 222; permission of instructor. Advanced software topics. As announced. Credit, 3 semester hours.

496. Seminar in Computer Science

Prerequisites: CSC 325, CSC 355, and MAT 222; permission of instructor. Advanced hardware topics. As announced. Credit, 3 semester hours.

499. Independent Study

Open to seniors in Computer Science with a quality point average of 3.0 in the major and with approval of the Department Chairman. Required written and oral reports. As announced. Credit, 1-3 semester hours.

In addition to courses of study listed in this section, the Department of Mathematics and Computer Science offers a Master of Arts in Mathematics Education. See the graduate section of this catalog for a description of this program.

MUSIC

Chairman: ROBERT L. ROMINE

LARRY D. ARNOLD
ROBERT M. DAWLEY*
WILLIAM F. FRITZ

ELIZABETH W. MAISONPIERRE
HAROLD C. SLAGLE
GEORGE R. WALTER

*Music Education Coordinator

The Department of Music is a full member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The purposes of the Department of Music are: to provide comprehensive training for teachers of vocal and instrumental music; to provide a well-rounded course of study for those students pursuing a professional career in music or continuing in graduate work; to provide experience which the music student and the general university student will find rewarding in developing their cultural sensitivity; and to provide public programs and concerts to enrich the cultural life of the University and the community.

The Department of Music offers degree programs in music education and performance. In addition, minors exist in Music, Sacred Music, and Jazz Studies.

Requirements for a Bachelor of Arts in Music with a Concentration in Performance

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Core Music Requirements	
MUS 100 or 141, 101 or 142, 113*, 114, 115, 159, 160, 181 or 159, 182 or 160, 193, 200 or 241, 201 or 242, 214, 215, 259, 260, 281 or 259, 282 or 260, 295*, 296*, 300 or 341, 301 or 342, 329, 334, 359, 360, 395, 401 or 441, 404, 459	41
Performance Concentration Requirements	
MUS 159***, 160, 236, 237, 259, 260, 332, 359, 360, 373, 402 or 442, 432, 445, 459, 460;	
**100-402, 141-442, 165-466, 156-457, 162-463, 335-435.	25
Music Electives	8
General Electives	3
Total	128

*Courses are in Basic Studies.
**4 hours of ensemble other than major ensemble are to be selected.
***16 hours of applied credit must be completed in the major performance area. Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Arts in Music with a Concentration in Music Industry

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Core Music Requirements:	
MUS 101 or 141, 101 or 141, 113*, 114, 115, 159, 160, 181 or 159, 182 or 160, 193, 300 or 241, 201 or 242, 214, 215, 259, 260, 281 or 259, 282 or 260, 295*, 296*, 300 or 341, 301 or 342, 329, 334, 359, 360, 395, 401 or 441, 404, 459	39
Music Industry Concentration Requirements	
MUS 171, 172, 191, 205, 271, 400, 420, 433, 499, BUS 227, 228, 307, 312, 415, ECN 201*.	35
Electives	3
Total	128

*Courses are in Basic Studies.
Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Science Degree in Music Education with a Vocal Concentration and with Certification by the State to Teach Music in the Public Schools (see p. 76 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
MUS 100, 101, 113, 114, 115, 159, 160, 171, 172, 181 or 159 182 or 160, 191, 193, 200, 201, 205, 214, 215, 259, or 260, 281 or 259, 282 or 260, 271, 295, 296, 300, 301, 329, 334, 395, 359, 360, 401, 404, 405, and 459	56-57
Professional Education Requirements:	
EDN 202, 227, 308, 419, 430, 445, 448; and MUS 400	25
Music Elective	1
Total	133-134

Requirements for a Bachelor of Science Degree in Music Education with an Instrumental Concentration and with Certification by the State to Teach Music in the Public Schools (see p. 76 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
MUS 113, 114, 115, 141, 142, 159, 160, 171, 172, 181 or 159, 182 or 160, 191, 193, 205, 214, 215, 241, 242, 259, 260, 271, 281 or 259, 282 or 260, 295, 296, 329, 334, 395, 341, 342, 359, 360, 404, 420, 441 and 459	57-58
Professional Education Requirements	
EDN 202, 227, 308, 419, 430, 445, 448; MUS 400	25
Electives	0
Total	133-134

*Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses. Teacher certification requirements of 6 hours of literature and 6 hours of history would each be satisfied in part by Music 296 and Music 395.

Requirements for a Bachelor of Science Degree in Music Education with a Keyboard Concentration and with Certification by the State to Teach Music in the Public Schools (Vocal Orientation).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements:	
MUS 100, 101, 113, 114, 115, 159 (20 or 21), 160 (20 or 21), 171, 172, 191, 193, 200, 201, 205, 214, 215, 259 (20 or 21), 260 (20 or 21), 271, 295, 296, 329, 334, 335, 336, 359 (20 or 21), 360 (20 or 21), 395, 404, 405, 425, 435, 459 (20 or 21)	61-62
Professional Education Requirements:	
EDN 202, 227, 308, 419, 430, 445, 448; and MUS 400	25
Electives	0
Total	137-138

Requirements for a Bachelor of Science Degree in Music Education with a Keyboard Concentration and with Certification by the State to Teach Music in the Public Schools (Instrumental Orientation).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements:	
MUS 113, 114, 115, 141, 142, 159 (20 or 21), 160 (20 or 21), 171, 172, 191; 193, 205, 214, 215, 241, 242, 259 (20 or 21), 260 (20 or 21), 271, 195, 296, 329, 334, 335, 336, 359 (20 or 21), 360 (20 or 21), 395, 404, 420, 425, 435, 459 (20 or 21)	61-62
Professional Education Requirements:	
EDN 202, 227, 308, 419; 430, 445, 448; and MUS 400	25
Electives	0
Total	137-138

*Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses. Teacher certification requirements of 6 hours of literature and 6 hours of history would each be satisfied in part by Music 296 and Music 395.

Academic Concentration in Music

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Music Department offers an Academic Concentration of 27 hours.

Required Courses

Course Number	Course Title	Semester Hours
MUS 113, 114, and 115		9
MUS 230; MUS 295, 296, 299, or 395		6
MUS 100, 101, and 200 or 141, 142, and 241		3
MUS 159, 160, and 161		3
MUS 181, 182, and 281		3
MUS 329		3
Total		27

MINOR IN MUSIC

The Minor in Music is designed to provide opportunities for any student to develop an understanding and appreciation of music as part of a liberal arts education.

Students who plan a Minor in Music should consult with the Department Chairman in order to acquire a music advisor in addition to their major advisor.

Required Courses		Sem. Hrs.
MUS 113	Fundamentals of Music Theory	3 hrs.
MUS 181-182	Class Piano I & II	2 hrs.
MUS 230	Introduction to Music Appreciation	3 hrs.
MUS 100-201	Concert Choir	
or	or	
MUS 141-241	University Band	3 hrs.
Electives*		7 hrs. (or more)
		<hr/>
		Total18 (or more)

*A minimum of seven hours to be chosen under the supervision of a Music Department advisor from courses with a music (MUS) prefix.

MINOR IN SACRED MUSIC

Designed for those students who would find it beneficial, both financially and aesthetically, in their future careers. The student will develop skills that will enable him or her to work successfully in the area of sacred music.

The minor in sacred music requires a minimum of 18 semester hours:

Required Courses		Sem. Hrs.
MUS 100-201	Concert Choir	4 hrs.
MUS 329	Conducting	3 hrs.
MUS 390	Church Music	3 hrs.
Electives		8 hrs. (or more)
		<hr/>
		Total 18 hrs. (or more)

*A minimum of 8 semester hours to be chosen under the supervision of a Music Department advisor from the following:

MUS 159-260 (Sect. 01)	Private Voice
MUS 159-260 (Sect. 03)	Private Organ
MUS 159-160 (Sect. 02)	Private Piano
MUS 191	Class Voice
MUS 230	Introduction to Music Appreciation
MUS 295-296, 395	Music History and Literature I, II, & III
MUS 490	Service Playing

MINOR IN JAZZ STUDIES

A program of study designed to equip music majors to perform and teach music in the jazz idiom.

Required Courses		Sem. Hrs.
MUS 235	A Study in Jazz	3 hrs.
MUS 236-237	Improvisation I & II	4 hrs.
MUS 346	Jazz Composition	2 hrs.
MUS 406	Jazz Pedagogy	3 hrs.
MUS 162-363	University Jazz Ensemble	
or		
MUS 156-357	University Jazz Choir	6 hrs.
Total		18 hrs.

COURSES (MUS)

THEORY AND GENERAL MUSIC

113. Fundamentals of Music Theory

A comprehensive study of notation, key structure, chord construction, ear training, terminology, and aesthetic principles. Fall. Credit, 3 semester hours. (Students who are excused from MUS 113 by advanced placement must select electives from the theory-composition area upon completion of prerequisites.)
114. Theory I

Prerequisite: MUS 113 or equivalent as determined by instructor.

A study of the basic elements of harmonic analysis emphasizing chord structure, functions, and relationships. Melodic and part-writing skills will be developed. Course includes a related survey of music history and form. Spring. Credit, 3 semester hours.
115. Theory II

Prerequisite: MUS 114.

A continuation of MUS 114. Fall. Credit, 3 semester hours.
193. Introduction to Ear Training

Prerequisite: MUS 115.

A beginning course in ear training techniques dealing with dictation from tapes and the use of other electronic media to improve listening skills. Spring. Credit, 1 semester hour.

209. Basic Musicianship

Restriction: Not open to music majors.

A course in the fundamentals of music. Fall, Spring. Credit, 3 semester hours.

214. Theory III

Prerequisite: MUS 115.

A study of advanced music theory using harmonic techniques of the late nineteenth and early twentieth centuries. Compositional skills will be developed. Course includes a related survey of music history and form. Spring. Credit, 3 semester hours.

215. Theory IV

Prerequisite: MUS 214.

A continuation of MUS 214 emphasizing later twentieth century techniques. Fall. Credit, 3 semester hours.

230. Introduction to Music Appreciation

Restriction: Not open to music majors.

The development of knowledge and understanding of music. Emphasis given to the forms of music found in different periods and the relationship of music to general cultural development. Fall, Spring. Credit, 3 semester hours.

235. A Study of Jazz

Open to music and non-music majors.

An introduction to jazz through a study of its origins, development, styles, and major innovative figures. Consideration is made of the idiom's historical and sociological contexts. Spring. Credit, 3 semester hours.

236. Improvisation I

Prerequisite: MUS 115 or permission of instructor.

A course in the development of improvisational skills through the study and application of theoretical and stylistic principles common to the jazz idiom. Fall, Spring. Credit, 2 semester hours.

237. Improvisation II

Prerequisite: MUS 236.

A continuation of MUS 236. Fall, Spring. Credit, 2 semester hours.

295. Music History and Literature I

A study of the development of music in non-Western cultures and in Western Civilization from Antiquity through the Renaissance. Such development will be viewed in light of its political, social, and general cultural setting. Fall. Credit, 3 semester hours.

296. Music History and Literature II

Prerequisite: MUS 295.

A study of the development of music in Western Civilization to the Baroque through Classical periods. Such development will be viewed in light of its political, social, and general cultural setting. Spring. Credit, 3 semester hours.

329. Conducting

A laboratory course which includes the study of choral and instrumental conducting techniques, choral and instrumental scores; with supervised conducting experience. Fall. Credit, 3 semester hours.

332. Form and Analysis

Prerequisite: MUS 215.

A study of various forms including large and small choral and instrumental works. Spring. Credit, 2 semester hours.

334. Orchestration and Arranging

Prerequisite: MUS 215.

A practical study of the fundamentals of scoring for individual instruments and ensembles. Spring. Credit, 2 semester hours.

346. Jazz Composition

Prerequisite: MUS 115 or equivalent as determined by Instructor

A study of basic compositional techniques as applied to the jazz idiom. Original compositions will be written and orchestrated for various-sized jazz ensembles. Fall 1990 and Alternate years. Credit, 2 semester hours.

390. Church Music

A study of liturgy, music, materials, and methods appropriate for a church music director. Spring 1991 and Alternate years. Credit, 3 semester hours.

395. Music History and Literature III

Prerequisite: MUS 296.

A study of the development of music in Western Civilization from the Romantic period through the twentieth century. Such development will be viewed in light of its political, social, and general cultural setting. Fall. Credit, 3 semester hours.

404. Senior Recital

Offered to senior music majors participating in a half or full public recital. Credit is given by permission of the instructor and Department Chairman. Fall, Spring. Credit, 0-2 semester hours.

406. Jazz Pedagogy

Prerequisite: MUS 235.

A study of the administration, methods, and directing techniques pertinent to the teaching of Jazz and Commercial Music. Fall 1990 and Alternate years. Credit, 3 semester hours.

425. Piano Pedagogy

A course designed primarily for the keyboard specialist who is planning to teach piano. The course includes methods of teaching, appropriate materials, and techniques for all grade levels. Spring 1990 and Alternate years. Credit, 2 semester hours.

426. Practicum in Piano Teaching

Prerequisite: MUS 425 or permission of the instructor.

Beginning piano lessons offered to area public school students at a nominal fee, and taught by upper level college students. The course provides teaching experiences under the supervision of college instructors. Fall, Spring. Credit, 1-4 semester hours.

430. Music Literature

Prerequisites: MUS 295, 296, 395.

A study of music literature for large and small performing groups of all periods from a stylistic and development viewpoint. Fall. Credit, 3 semester hours.

432. Counterpoint

Prerequisite: MUS 215.

A study primarily of eighteenth-century contrapuntal techniques with a written work in two and three part writing. Fall. Credit, 2 semester hours.

433. Internship in Music Merchandising

Restriction: Must be taken in final semester of study.

The internship will be performed off campus under the direction of a cooperating music sales and/or repair firm. Cooperating firm will work closely with Department of Music faculty in training and evaluation of the intern. Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

445. Music Composition I

Prerequisite: MUS 215 or permission of instructor.

A course designed to implement the student's study of theory. Original compositions will be written for instrumental and choral ensembles in the important music forms utilizing homophonic and polyphonic techniques. Fall. Credit, 2 semester hours.

490. Service Playing

Prerequisite: MUS 259 or the equivalent.

A study of the musical liturgy of the Catholic, Jewish, and Protestant services. Students should be free for Sunday morning church visitations. Spring. Credit, 1 semester hour.

491. Electronic Music

Prerequisite: MUS 114 or MUS 230 with permission of instructor.

A survey of electronic music with an emphasis on listening, aesthetic and philosophical concerns, necessary terminology, and composition/arranging for synthesizer. Various types of synthesis will be explored as well as MIDI systems and MIDI. Sequencing and transcription will be done using a Kurzweil synthesizer, Alesis drum, and comparable equipment in conjunction with an Apple Macintosh SE Computer and selected software programs. Spring (alternate years). Credit, 3 semester hours.

499. Independent Study in Music

Prerequisites: Music major, senior standing, and approval of Department Chairman.

Directed study and research in the student's major field of interest. Fall, Spring. Credit, 1-3 semester hours.

APPLIED MUSIC

Private study is offered in piano, organ, voice, and instruments of the band and orchestra. In each of these fields, the work will be adapted to the needs of the individual student. Courses in applied music are required of all music majors and may be elected with permission of the instructor by students not majoring in music.

1. Applied music lessons require a minimum of five practice hours weekly per credit hour.
2. Freshman, sophomore, and junior music majors must participate in student music recitals. Senior music majors must be in preparation for their senior recital.

159, 160; 259, 260; 359, 360; 459, 460. Applied Music (Courses must follow in sequence).

Private lessons are designed to build technical proficiency, repertoire, and awareness of vocal and instrumental problems. Fall, Spring. One half-hour lesson and one fifty-minute seminar bi-weekly. Credit, 1 semester hour. Two half-hour lessons and one fifty-minute seminar bi-weekly. Credit, 2 semester hours.

1 hour each semester

01. Private Voice
02. Private Piano
03. Private Organ
04. Private Flute
05. Private Oboe
06. Private Clarinet
07. Private Bassoon
08. Private Saxophone
09. Private Trumpet
10. Private French Horn
11. Private Trombone
12. Private Baritone Horn
13. Private Tuba
14. Private Percussion
15. Private Violin
16. Private Viola
17. Private Violoncello
18. Private Bass Viol
19. Private Voice

2 hours each semester

20. Private Piano
21. Private Organ
22. Private Flute
23. Private Oboe
24. Private Clarinet
25. Private Bassoon
26. Private Saxophone
27. Private Trumpet
28. Private French Horn
29. Private Trombone
30. Private Baritone Horn
31. Private Tuba
32. Private Percussion
33. Private Violin
34. Private Viola
35. Private Violoncello
36. Private Bass Viol
37. Private Guitar
38. Private Guitar

Non-keyboard music education majors will fulfill their course requirements in piano by enrolling in MUS 181, 182, 281, and 282 (Class Piano I-IV).

Inasmuch as a proficiency examination is not given to students prior to enrollment at Pembroke State University, each student is evaluated at the conclusion of MUS

259 (Applied Music). This evaluation will be based on the student's performing ability and overall progress in both music and academic courses.

A proficiency examination is also required by the Piano Division at the conclusion of the student's fourth semester of piano instruction. This examination consist of the following:

1. A prepared piano composition of sufficient difficulty,
2. All major and harmonic minor scales, two octaves, hands together,
3. Chord progressions involving primary and secondary triads, dominant-seventh chords, and secondary dominant-seventh chords,
4. Harmonization of melodies with chords cited in point 3 above, and
5. Transposition of simple melodies.

Students must pass these proficiency tests before proceeding to junior-level applied music courses.

All music majors are required to attend all recitals, concerts, and Performing Arts Season Programs which pertain to music.

Graduating seniors must present an individual or joint recital as a partial requirement for graduation. Approval of recital must be given by the music faculty at least three weeks prior to presentation. Students who complete their applied music studies should continue to take lessons for no credit until they have completed their senior recital requirements.

COURSES (MUS)

133. Class Piano I for Non-Music Majors

A concentrated group study of keyboard harmony and playing techniques, designed for the student with little or no musical background. Fall, Spring. Credit, 1 semester hour.

134. Class Piano II for Non-Music Majors

Prerequisite: MUS 133.

A continuation of MUS 133 (Class Piano I for Non-Music Majors). Fall, Spring. Credit, 1 semester hour.

171. Class Woodwind

A concentrated study in fundamentals and playing techniques for Flute, Oboe, Clarinet, Saxophone, and Bassoon. Spring. Credit, 1 semester hour.

172. Class Brass

A concentrated study in fundamentals and playing techniques for Trumpet, Cornet, French Horn, Trombone, Baritone Horn, and Tuba. Spring. Credit, 1 semester hour.

181. Class Piano I

A concentrated group study of keyboard harmony and playing techniques, designed for the music major. Spring. Credit, 1 semester hour.

182. Class Piano II

Prerequisite: MUS 181.

A continuation of MUS 181 (Class Piano I). Fall. Credit, 1 semester hour.

191. Class Voice

A concentrated group study of singing techniques and vocal development including sightsinging. Fall. Credit, 1 semester hour.

205. Class Strings

A concentrated study of fundamentals and playing techniques of the orchestral stringed instruments. Spring. Credit, 1 semester hour.

271. Class Percussion

A concentrated study in fundamentals and playing techniques of percussion instruments. Fall. Credit, 1 semester hour.

281. Class Piano III

Prerequisite: MUS 182.

A continuation of the non-keyboard major's pianistic development with emphasis on the practical aspects of reading, harmonization, and transposition. Spring. Credit, 1 semester hour.

282. Class Piano IV

Prerequisite: MUS 281.

A continuation of MUS 281 (Class Piano III). Fall. Credit, 1 semester hour.

Performing Organizations**100, 101; 200, 201; 300, 301; 400, 401. Concert Choir**

The Concert Choir is open to all persons regardless of planned major with permission of the director. The Choir appears in public concerts throughout the year. Fall, Spring. Credit, 1 semester hour.

107, 108; 207, 208; 307, 308; 407, 408. University Pep Band

The University Pep Band is open to all persons regardless of planned major with permission of the director. Public performances will be made at athletic events and whenever support of scheduled University activities is needed. Fall, Spring. Credit, 1 semester hour each.

110, 111; 210, 211; 310, 311; 410, 411. Music for Male Voices

Music for Male voices is open to all persons regardless of planned major with permission of the director. Public appearances are made throughout the year. Fall, Spring. Credit, 1 semester hour each.

141, 142; 241, 242; 341, 342; 441, 442. University Band

The University Band is open to all persons regardless of planned major with permission of the director. Public appearances are made in concerts. Fall, Spring. Credit, 1 semester hour.

165, 166; 265, 266; 365, 366; 465, 466. Percussion Ensemble

Membership in the University Percussion Ensemble is open to all students by audition or permission of the director. A technical, stylistic, and aesthetic study of percussion ensemble literature through rehearsal and public performance. Fall, Spring. Credit, 1 semester hour each.

156, 157; 256, 257; 356, 357; 456, 457. University Jazz Choir

Membership in the University Jazz Choir is open to all students by audition. A study of vocal music trends, through the rehearsals and performance of pop, rock, progressive jazz, and other modern forms of music. Fall, Spring. Credit, 1 semester hour each.

- CHM 311: Biochemistry
CHM 312: Biochemistry Lab

Required cognate courses (39 semester hours)

- MAT 109: College Algebra and Trigonometry
MAT 221: Calculus I
MAT 222: Calculus II
BIO 100: Principles of Biology
BIO 100L: Laboratory Investigation and Experiences in General Biology
BIO 101: General Botany
or
BIO 102: General Zoology
GLY 115: Earth Science
GLY 115L: Earth Science Lab
GLY 125: Earth History
GLY 125L: Earth History Lab
PHY 150: College Physics I
PHY 151: College Physics II
PHY 206: Physics Laboratory
PHY 207: Physics Laboratory
CSC 405: Computers in Education

C. PHYSICS

Required physics courses (29 semester hours)

- PHY 150: College Physics I
PHY 151: College Physics II
PHY 206: Physics Laboratory
PHY 207: Physics Laboratory
PHY 218: Optics
PHY 256: Modern Physics
PHY 320: Electricity and Magnetism
PHY 321: Electricity and Magnetism
PHY 326: Heat and Temperature
PHY 356: Modern Electronics
PHS 116: Exploring Man's Energy Choices

Required cognate courses (41 semester hour)

- MAT 109: College Algebra and Trigonometry
MAT 221: Calculus I
MAT 222: Calculus II
MAT 322: Differential Equations
BIO 100: Principles of Biology
BIO 100L: Laboratory Investigations and Experiences in General Biology
BIO 101: General Botany
or
BIO 102: General Zoology
GLY 115: Earth Science
GLY 115L: Earth Science Lab
CHM 100: General Chemistry
CHM 101: General Chemistry

- PHS 156: Astronomy
CSC 405: Computers in Education

D. EARTH SCIENCE

Required Earth Science courses (32 semester hours)

- GLY 100: Physical Geology
GLY 100L: Physical Geology Lab
GLY 125: Earth History
GLY 125L: Earth History Lab
GLY 226: Physical Oceanography
GLY 262: Environmental Geology
GLY 310: Mineralogy and Petrology
GLY 325: General Paleontology
GLY 246: Climatology
GLY 366: Geomorphology
GLY 425: Stratigraphy and Sedimentology
PHS 156: Astronomy

Required cognate courses (38 semester hours)

- MAT 107: College Algebra
MAT 215: Calculus with Applications
CHM 100 &
110: General Chemistry
CHM 101 &
111: General Chemistry
CHM 300: Organic Chemistry
BIO 100: Principles of Biology
BIO 100L: Laboratory Investigations and Experiences in General Biology
BIO 101: General Botany
or
BIO 102: General Zoology
PHY 150: College Physics I
PHY 151: College Physics II
PHY 206: Physics Laboratory
PHY 207: Physics Laboratory
CSC 405: Computers in Education

3. Professional Requirements (28 semester hours)

- SCE 300: Early Experience for Prospective Science Teachers
SCE 301: Practicum for Secondary Science Teachers
SCE 400: Teaching Science in the Secondary School
EDN 227: Foundations of Education I
EDN 202: Educational Psychology
EDN 308: Psychology of Adolescence
EDN 419: Teaching Content Area Reading
EDN 430: Mainstreaming the Exceptional Student
EDN 445: Foundations of Education II (Secondary)
EDN 448: Student Teaching in the Secondary School

4. Electives (0)

TOTALS

BIOLOGY:	138 semester hours
CHEMISTRY:	138 semester hours
PHYSICS:	137 semester hours
EARTH SCIENCE:	137 semester hours

Requirements for certification in Science for the B.S. Degree in Middle Grades Education (6-9)

PHS 110, 111, 108, 109, PHY 150, 151, 206, 207
BIO 100, 100L, 103; CHM 100 & 110
GLY 115, 115L, 125; SCE 350

Total hrs.: 29

COURSES: SCIENCE EDUCATION (SCE)**300. Early Experiences for Prospective Science Teachers**

An introduction to the teaching of science for prospective secondary science teachers. A minimum of 16 clock hours of directed classroom observations and planned participation in actual classroom settings and 8 clock hours of seminar class instruction in the teaching area. Fall. Credit, 1 semester hour.

301. Practicum for Secondary Science Teachers

Prerequisites: SCE 300 and at least 16 semester hours of science in area of concentration. Two two-hour laboratories per week, practical experiences in setting up laboratories in the life and physical sciences. The student will be assigned to members of the participating science departments as laboratory assistants. Fall, Spring. Credit, 2 semester hours.

350. The Teaching of Science in the Middle Grades (6-9)

Prerequisite: Junior Standing

Purposes, methods, materials, and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials appropriate for teaching science in the middle grades. Fall, Spring. Credit, 3 semester hours.

400. Teaching Science in the Secondary School

Prerequisites: SCE 300, 301, and admission to Professional Semester.

Purpose, methods, materials, and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials. Spring. Credit, 3 semester hours.

APPLIED GERONTOLOGY (MINOR)*Coordinator:* STEPHEN M. MARSON

The Programs in Biology, Psychology, Recreation, Sociology and Social Work offer an interdisciplinary Minor in Applied Gerontology. The Minor is designed to enhance the student's knowledge base in gerontology for both personal growth and professional advancement. The Minor offers the student understanding of causal linkages between the changes in biological functioning and their psychosocial adaptations. The minor also addresses the manner in which one can effectively deal with the changes of aging while still maintaining a productive life.

	<i>Courses</i>	<i>Sem. Hr.</i>
BIO 103	Human Biology	3
BIO 300	Medical Vocabulary OR	2
	SOC 270 Medical Terminology	
PSY 305	Psychology of Adult Development & Aging	3
REC 425	Leisure Activities for Middle and Older Adulthood	3
SOC 375	Death, Dying and Chronic Illness	3
SWK 384	Social Gerontology	3
		<hr/>
Total		17

In order to successfully complete the Minor in Applied Gerontology, the student is required to enroll in a field practicum within his/her major. The internship must be completed under the auspices of an institution or agency whose primary function is related to the elderly population.

PERSONNEL AND ORGANIZATIONAL LEADERSHIP (MINOR)*Coordinators:*

EMMETT LOMBARD

ED POWERS

MICHAEL STRATIL

The Departments of Psychology, Business Administration, and Political Science offer an interdepartmental minor in Personnel and Organizational Leadership. This program is designed to provide the following competencies: 1) a theoretical understanding of the basic psychological processes that operate in work settings; 2) skill in establishing rapport with co-workers; 3) skill in assessing the qualifications and performance of others; 4) skill in managing and training others; and 5) a theoretical understanding of organizational structure and the forces that influence it.

COURSES**A. Psychology (9 hours)**

PSY 216	Introduction to Social Psychology
PSY 316	Psychology of Leadership
PSY 317	Psychology of Social Communication
PSY 403	Introduction to Psychological Testing
PSY 415	Human Motivation

B. Management/Administration (9 hours)

BUS 307	Principles of Management
BUS 308	Organizational Theory and Behavior
BUS 408	Personnel Management
BUS 466	Business Policy
BUS 407	Economics of Labor
PLS 210	Introduction to Public Administration
PLS 319	Public Policy Analysis
PLS 360	Introductory Internship in Public Administration

A particular course cannot be used to satisfy the requirements of both a major and a minor at the same time.

Students majoring in any subject are eligible to participate in the Personnel and Organizational Leadership minor. Those who are interested should consult with the department chairman from Psychology, Business Administration, or Political Science. Since many courses in the minor have prerequisites that can be taken to meet Basic Studies requirements, early planning will be to the student's advantage.

WORLD STUDIES (MINOR)

Coordinator: JOHN CHAY

Eighteen semester hours are required for the satisfactory completion of the minor in World Studies. Courses that fulfill the requirements of a student's major area of study cannot be applied toward this minor. The minor is divided into specified and elective courses.

COURSES (WLS)

Specified Courses (Select two)

200. World Cultural Geography (GGY 200)

Concept of culture applied to the human environment. Geographical variations and evolution resulting from the interaction between cultural and physical processes. Culture and technological change. Population and migration. Cultural effects on perception of the environment. Spring. Credit, 3 semester hours.

251. Introduction to World Politics (PLS 251)

Prerequisite: PLS 100 or 101.

Analysis of politics and relations among nations: (1) sovereignty, (2) domestic jurisdiction, (3) status quo, (4) colonialism, (5) balance of power, (6) alliance and neutrality, (7) peaceful adjustment of disputes, (8) disarmament, (9) standards of international conduct, (10) economic development and political advancement of the developing countries. Fall, Spring. Credit, 3 semester hours.

450. Seminar in International and Intercultural Relations

Prerequisite: Approval of the Coordinator, World Studies Minor.

Research seminar to gain experience in formulating, designing, and implementing meaningful research projects in international and intercultural relations. A substantial paper will be prepared by the student and presented to the Seminar and World Studies faculty. Fall, Spring. Credit, 3 semester hours.

Elective Courses (Select four)

Courses must be selected by the student, approved by the Coordinator, and noted in the minor advisement file of the student. A minimum of 12 unduplicated semester hours will be chosen. Participating departments include:

Biology	History
Communicative Arts	Political Science
Business Administration	Philosophy and Religion
and Economics	Sociology, Social Work
Geography	and Criminal Justice

100, 101, 102, 103. University Convocation Program

This World Studies Committee offers four one-hour courses to encourage student attendance at campus lectures and cultural events. Each course is given on a Pass/Fail basis. To receive credit, students must attend ten events which have been approved by the World Studies Committee. Fall, Spring. Credit, 1 semester hours.

GRADUATE PROGRAMS

Administrative Studies (M.S.A.S.)

Education (M.A.Ed.)

GRADUATE PROGRAMS
Director: W. HOWARD DEAN

GENERAL INFORMATION

Pembroke State University offers a program of graduate studies leading to:

- A Master of Science Degree in Administrative Studies
- A Master of Arts Degree in Education
- Graduate level (G) certification for teachers and school administrators in eight areas of specialization.

Special information can be found in the program descriptions below.

SCHEDULE OF GRADUATE EXPENSES

Note: Fees are subject to change without notice.

Expenses Per Semester: Spring or Fall		
Semester Hours	In-State	Out-of-State
3	\$111	\$1,171
6	184	1,625
9	400	2,321

Students who register for classes after the scheduled registration date has passed must pay a \$10 late fee.

If a student lives on campus, add \$960 for room and board per semester.

Expenses for Each Summer Term		
Semester Hours	In-State	Out-of-State
3	\$143	\$1,103
6	198	1,639

If a student lives on campus, add \$285 for room and board term. A charge of \$15 will be made for each returned check.

STUDENT ACTIVITY FEE

The above charges for students taking 6 or 9 semester hours during regular sessions and for all students during summer sessions include a mandatory fee for activities, such as Student Government and the Chavis University Center.

Students taking 7 hrs. or more (whether graduate, undergraduate, or a combination) will pay the full activity fee.

RESIDENCE STATUS FOR TUITION PAYMENT

It is a long-standing practice of the State to require students who are not residents of the State to pay a higher rate of tuition than that charged North Carolina residents. To qualify for in-state tuition, the applicant must generally have lived in North Carolina for a minimum period of twelve months immediately prior to his or her enrollment in an institution of higher learning. During this twelve-month period, the applicant's presence in the State must constitute legal residence in accordance with the University's guidelines as prescribed by the General Assembly. Copies of the applicable North Carolina law and institutional regulations which **govern** such classifications determinations are available in the Office of Admissions for inspection upon request. The student requesting in-state residence is responsible for being familiar with the contents of these two documents. See the Admissions section for more detailed information regarding residency status.

THE GRADUATE PROGRAM IN ADMINISTRATIVE STUDIES

Director: DANIEL G. BARBEE

This interdisciplinary program offers graduate study leading to the Master of Science degree in Administrative Studies (MSAS). This management program provides advanced study opportunities to qualified individuals from business, government, and non-profit organizations. Based solidly in theory and research, the program emphasis is on the practical application of knowledge in management settings. It is designed to meet the career and professional development needs of both business managers and governmental administrators.

For those who are already in administrative and managerial positions, the MSAS Program will refine, update, and improve their career and leadership potential. For others, the MSAS Program offers a solid base of graduate education to use in building a successful career in management. As an interdisciplinary program, Administrative Studies draws from a variety of disciplines to provide the knowledge and skill base necessary for effective management in business, government and non-profit organizations.

ADMISSION TO THE PROGRAM

For admission to the Graduate Program in Administrative Studies at Pembroke State University, the application must meet the following requirements:

1. Each applicant must have a baccalaureate degree from a college or university of recognized standing;
2. The application for admission, official copies of transcripts of previous study, and other supporting documents should be submitted at least four weeks prior to the semester in which the applicant proposes to begin graduate study;
3. Applicants must have a satisfactory undergraduate academic record and must meet at least one of the following minimum GPA (4.0 scale) requirements: have an overall GPA 2.5 on all undergraduate work, or have a GPA of 3.0 in the undergraduate major, or have a GPA of 3.0 on all undergraduate work taken in the senior year;
4. Applicants must submit an official report of satisfactory scores on the Miller Analogies Test or the Graduate Record Examination;
5. Three letters of recommendation from persons qualified to evaluate the applicant's potential for graduate study. One of the letters must come from the applicant's undergraduate major department. At least two of the letters should be from individuals whose evaluations can be based on current or recent knowledge of the applicant. Persons suitable for providing recommendations

- include employers, supervisors, and professors. Letters from professional colleagues who have significant managerial experience are acceptable;
6. An essay describing the applicant's experience and objective in undertaking graduate study in management;
 7. Other information such as a personal interview or writing sample may be required.
 8. Approval by the Graduate Studies Office and the Graduate Program in Administrative Studies. Meeting minimum admission requirements for graduate standing does not assure or guarantee acceptance into the Administrative Studies Program.
 9. The Graduate Program in Administrative Studies may provisionally admit students, determine the need for, and recommend specific prerequisites for applicants who do not clearly meet admission requirements.

REQUIREMENTS FOR THE MASTER'S DEGREE IN ADMINISTRATIVE STUDIES

Degree Requirements

1. Candidates for the Master of Science in Administrative Studies will be required to successfully complete a minimum of forty-two semester hours of course work in accordance with the prescribed course of study.
 - a. All of the forty-two semester hours of graduate credit must be earned in courses designed for graduate students (500 level courses).
 - b. Courses numbered 500 and above are graduate courses with the following number system; ADM 500-509, courses in the MSAS core curriculum; ADM 510-529, courses in the option areas; ADM 530-559, elective courses; ADM 560-569, independent study, special topics, and research project courses (ADM 562, Administrative Research Project). Additional graduate courses in related areas are also numbered 500 and above.
2. Residence Credit

Candidates must have completed one semester of graduate residence at Pembroke State University. Graduate students may satisfy the residency requirement by being continuously enrolled and completing twelve semester hours of graduate study.
3. Degree Time Limits

Graduate credit applied toward the Master of Science in Administrative Studies must be completed within five years of admission to the program.
4. Credits by Transfer, Extension or Correspondence

The combined total of graduate credit earned in another recognized graduate school and through extension study and allowed by the Graduate Council to apply toward the Master of Science in Administrative Studies degree may not total more than six hours.

No credit applied toward a graduate degree may be obtained by correspondence study.

No graduate study credit earned at another recognized graduate school and transferred to Pembroke State University or graduate study credit earned through extension will be allowed by the Graduate Council to apply toward meeting the residence requirement for a Master's degree.

5. Comprehensive Examinations

A candidate for the Master of Science in Administrative Studies degree, in addition to the regular examinations in courses taken for graduate credit, must pass written, comprehensive examinations.

The comprehensive examinations must be scheduled at least six weeks prior to the end of the semester in which the candidate expects to receive the degree and must be taken at least four weeks before the end of the semester in which the candidate expects to receive the degree but may be administered earlier with the approval of the candidate, the candidate's advisor, the Director of the Administrative Studies program, and the Director of Graduate Studies. Comprehensive examinations will be administered during the fall or spring semester when the student completes a program or when the final semester of course work is in progress. Students must wait at least one semester before retaking comprehensives. Any student who fails any part or parts of the comprehensive examinations twice becomes ineligible to continue graduate study.

6. Administrative Research Project

Each student is required to complete an Administrative Research Project. This project is a directed, supervised research activity in which the student develops and analyzes a suitable topic, issue, or problem in administration, and reports the results in a written document to be presented and orally summarized and defended before the assembled faculty and students of the MSAS program. Three hours of graduate credit in the MSAS program are earned in the completion of this project and applied toward the requirements for the Master of Science in Administrative Studies degree.

7. Application for Graduation

Application for graduation must be filed in the Office of the Director of Graduate Programs not later than four weeks after the beginning of the semester in which the candidate expects to receive the Master of Science in Administrative Studies degree.

8. Conferring of Degrees

Candidates for the degree are required to be present at the commencement exercises in the prescribed dress.

Graduate Grading System

The grading system for the graduate program follows:

A-Superior

B-Satisfactory

C-Poor

F-Failure

I-Course work incomplete, must be removed within one year after the end of the course or the I becomes an F.

T-Grade pending, used only for research project courses until the sequence of courses is completed.

A graduate student with an accumulation of nine semester hours of less than “B” quality work will be automatically eliminated as a candidate for a Master’s degree.

A graduate student who makes an “F” will be eliminated as a candidate for a Master’s degree except when a committee composed of the student’s advisor and two other MSAS program faculty members recommend continuation and when the recommendation is approved by the Graduate Council.

PROGRAM OF STUDY

The MSAS program consists of a 24-semester hour core curriculum that must be completed by all students; 9-semester hours in an option area; 6-semester hours of approved electives; and an administrative research project of 3-semester hours.

	Sem. Hrs.
A. Required Core Courses	24
1. ADM 500 - Administrative Theory and Practice	
2. ADM 501 - Organizational Behavior	
3. ADM 502 - Policy, Legal and Ethical Issues in Administration	
4. ADM 503 - Economic Analysis for Managers	
5. ADM 504 - Financial Resource Administration	
6. ADM 505 - Research Design and Methods	
7. ADM 506 - Human Resource Administration	
8. ADM 508 - Quantitative Analysis I	
B. MSAS Option Areas	9
Organizational Leadership	
1. ADM 510 - Organizational Leadership Seminar	
2. ADM 511 - Strategic Planning	
3. ADM 512 - Decisionmaking for Leaders	
Administrative Technology and Information Systems*	
1. ADM 520 - Seminar in Administrative Technology	
2. ADM 521 - Management Information Systems	
3. ADM 522 - Information Systems Planning and Administration	
*The Administrative Technology and Information Systems option area is currently under development.	
C. Administrative Studies Electives	6
1. ADM 530 - Organizational Communication	
2. ADM 531 - Accounting for Administrators	
3. ADM 532 - Quantitative Analysis for Administrators	
4. ADM 533 - Leadership and Change	
5. ADM 534 - Administrative Studies Internship	
6. ADM 507 - Computer Technology in Administration	

D. Administrative Research Project3

1. ADM 562 - Administrative Research Project

TOTAL HOURS (minimum)42

E. Independent Studies and Special Topics

(May be used for elective credit)

1. ADM 560 - Independent Study

2. ADM 563 - Special Topics

3. ADM 564 - Special Topics

COURSES (ADM)

500. **Administrative Theory and Practice**
- This course will examine administration as a general subject of inquiry. It covers the development of modern administrative practice, and other practice, and the emergence of corporations, public agencies, and other organizations as important institutions in society. Major theories, concepts, and emerging ideas in administration are considered from several perspectives: institutional, organizational, and the future. Throughout the course the focus is on the phenomenon of effective **administration** as practiced in a variety of organizational settings.
501. **Organizational Behavior**
- The course will examine explanations of individual behavior (perceptions, attributions, motivations, attitudes); the nature of human behavior in groups (group dynamics, power, leadership); and organizational structures and processes that affect human behavior (organizational and job design, communication, performance appraisal). Principles of organizational change and development will also be addressed. The course will employ case analyses and directed readings in relevant research literature as well as text materials.
502. **Legal, Policy, and Ethical Issues in Administration**
- This course analyzes current legal, policy and ethical issues which apply to administrators in both public and private organizations. Emphasis will be given to regulatory policy, statutory and case law in administration, the politics of regulation, along with administrative and legal processes pertaining to implementation and enforcement. An important emphasis will also be given to the ethical implications of the political, policy, and legal issues raised. Topics will include governmental practices, and administrative responsibility.
503. **Economic Analysis for Managers**
- An overview of methods of economic analysis applied to the modern United States economy. Emphasis on microeconomics and managerial economics such as theory of consumer choice and demand, theory of cost, outputs, and industrial structure, analysis of efficient use of resources within an organization. Also macroeconomic analyses including a review of monetary institutions, and theory of GNP, inflation, and the rate of unemployment.
504. **Financial Resource Administration**
- Financial processes and structures in organizations. Focuses on financial environment, financial concepts, financial analysis, financial dynamics of expansion and retrenchment, capital structure, capital budgeting, and dividend policy.

505. Research Design and Methods

Examination of the basic research designs and methods used to analyze management problems and improve managerial decisionmaking. Includes research design, methods, analysis and review of the professional literature, and the interpretation and application of administrative and management research. Use of library resources, evaluation of management research, and current trends in management research.

506. Human Resource Administration

Study of how an organization secures, develops, maintains, and rewards employees to meet organization objectives. Topics include recruitment, selection, training performance appraisal, compensation, benefits, and labor-management relations. Examines effective integration of human resource functions.

507. Computer Technology in Administration

Study of computer technology in contemporary organizations. Primary emphasis is on developing a conceptual framework for selecting appropriate hardware and software configurations to perform different organizational functions. The limitations and complications associated with computer technology are also covered. Students will complete several individual projects involving direct experience with various categories of application software, including word processing, database management, statistical analysis, spreadsheet analysis, and decision making.

508. Quantitative Analysis I

Intensive examination of statistical and graphical methods of analyzing quantitative information. Covers frequency distributions, probability, sampling, t-tests, correlation, various graphic forms, methods of avoiding distortions in graphics, and an overview of regression analysis, factor analysis, and analysis of variance. Extensive experience working with administrative data, emphasizing the use of computer technology and software.

510. Organizational Leadership Seminar

The theory and practice of leadership in organizations will be considered from the primary perspective of developing analytic, synthetic, and evaluative skill oriented toward defining leadership problems, constructing solutions, and implementing solutions effectively. Leadership behaviors (developing and maintaining relationships, acquiring and disseminating information, making decisions, and influencing others) will be addressed in the context of specific applications. Case analyses and readings from the primary research literature will be supplemented by lecture and class discussion.

511. Strategic Planning

This course is a study of strategic management as a function of leadership. The three primary components of strategic management, which are strategic planning, strategy formulation, and strategy implementation, are analyzed. A case-study approach is used to examine applications in for-profit, non-profit, and public organizations.

512. Decision-Making for Leaders

This course considers the theory and practice of decision-making in administrative and managerial settings. The emphasis is on the development of diagnostic, analytic, and choice skills that can be employed to improve decision-making at the individual, group, organizational and interorganizational levels. Leading models and approaches to decision-making behavior and its application and consequences in administration are covered. Scenario and case analyses from research literature will be used with lectures and class activities.

530. Organizational Communication

Theory and practice of oral and written communication within organizations, from employee-employer interpersonal communication, interview communication, serial (information dissemination) communication, small group communication, and formal and informal presentations within the organization. All students are expected to fully participate in all written and oral activities and presentations.

531. Accounting for Administrators

The development and use of accounting information by administrators. Includes financial and managerial concepts relevant to public and private sectors.

532. Quantitative Analysis II

Study of modelling and other analytical methods to address problems and needs of administrative organizations. Describes the uses and limitations of quantitative models as well as criteria for planning and decision-making, simulation, systems analysis, forecasting, analytical programming, and scheduling.

533. Leadership and Change

This course addresses the phenomenon of change, how it affects organizations, and the role of leaders in shaping the future of the organization by guiding change. The course covers types of change, the tools available to leaders for guiding both planned and unplanned change, and the effects, and consequences of change.

534. Administrative Studies Internship

Prerequisite: Consent of Program Director.

This course will involve the student in a seminar and planned field experience of professional development in an appropriate administrative setting. It will be supervised by a designated member of the Administrative Studies faculty and an official representing the cooperating host organization. The scheduled seminar sessions will address a variety of issues designed to enable the student intern to gain knowledge and useful experience from the internship. The intern will apply the knowledge and skilled gained from coursework to analyze administrative settings, issues, and problems, and generally to function effectively in an organizational setting. Appropriate readings and a structured written analytical report are required in addition to scheduled seminar sessions.

560. Independent Study

Independent study in an area of administration and management relevant to the student's needs and interests. Supervised by an MSAS Program faculty member. Regular advisory and tutorial activities. Consent of the Program Director is required.

562. Administrative Research Project

The Administrative Research Project is a directed, supervised research activity in which the student develops and analyzes a suitable topic, issue, or problem in administration. The research subject must be one which can be addressed through the application of the knowledge and the research skills gained from coursework.

563. Special Topics

The study of a particular topic of special importance, relevance, and currency to students of administration and management. The Special Topics course frequently is taught in seminar style, emphasizes content linkages with other courses in the Administrative Studies program, and requires significant student activity. The content of the special topics course varies with each offering. Consent of Program Director required.

564. Special Topics

The study of a particular topic of special importance, relevance, and currency to students of administration and management. The Special Topics course frequently is taught in seminar style, emphasizes content linkages with other courses in the Administrative Studies program, and requires significant student activity. The content of the special topics course varies with each offering. Consent of Program Director required.

THE GRADUATE PROGRAM IN EDUCATION

Director: W. HOWARD DEAN

Pembroke State University offers a program of graduate studies leading to the Master of Arts in Education degree and graduate-level certification for Elementary Education Teachers, Middle Grades Education Teachers, Mathematics Education Teachers, English Education Teachers, Reading Teachers, and Supervisors and School Administrators. The graduate program was established in response to the needs of public school educators in this region of the state. The graduate program is planned as an outgrowth of its strong undergraduate programs in teacher education, which are fully accredited by the National Council for Accreditation of Teacher Education, the North Carolina State Department of Public Instruction, the Southern Association of College and Schools, and the American Association of Colleges of Teacher Education.

ADMISSION TO THE PROGRAM

General Admission Requirements

For admission to a graduate program at Pembroke State University, the applicant must meet the following requirements:

1. each applicant must have a baccalaureate degree from a college or university of recognized standing;
2. the application for admission, official copies of transcripts of previous study, and other supporting documents should be submitted at least four weeks prior to the semester or summer session in which the applicant proposes to begin graduate study;
3. applicants must have a satisfactory undergraduate academic record and must meet at least one of the following minimum GPA (4.0 scale) requirements: have an overall GPA 2.5 on all undergraduate work, or have a GPA of 3.0 in the undergraduate major, or have a GPA of 3.0 on all undergraduate work taken in the senior year;
4. applicants must submit an official report of satisfactory scores on the Miller Analogies Test or the Graduate Record Examination (English Education applicants may substitute NTE scores);
5. applicants must hold or be eligible to hold a North Carolina Class A teaching certificate appropriate for graduate study in the proposed field or a comparable certificate in another state;

6. three letters of recommendation from school officials, professors, or others qualified to evaluate the applicant's potential for graduate study (At least one of the letters of recommendation must come from the applicant's undergraduate major department);
7. other information such as a personal interview may be required.

TEACHING ASSISTANTSHIPS

The graduate school offers a limited number of teaching assistantships. In order to receive an appointment, a student must meet the criteria and be accepted into the program. The student must be full time and be recommended by the Director of Graduate Studies and the department chairman in whose department the student is working toward a degree. The value of the stipend is determined by the time spent in assisting, the qualifications of the assistant, and the nature of the work to be assigned.

The general and specific duties of each assistant will be determined by the Director of Graduate Studies, department chairman, and the faculty supervisor. Various duties include the following: (1) assisting in instruction, (2) assisting with research, (3) supervising laboratory teaching (4) grading papers; (5) proctoring examinations; and (6) holding tutorial sessions for undergraduate students.

UNDERGRADUATE ENROLLMENT FOR GRADUATE COURSES

Provided they are otherwise qualified for admission on graduate study, Seniors at Pembroke State University who are within 9 semester hours of graduation may apply to the Director of Graduate Studies for permission to carry up to six semester hours of graduate course work while completing the baccalaureate degree. Credit earned in this manner may not be used to meet requirements for the baccalaureate degree and, at the same time, be applied toward the Master's Degree.

Seniors who qualify and wish to enroll in a graduate course for undergraduate credit may apply to the Chairperson of their department and the Director of Graduate Studies to do so. However, any graduate course approved for this purpose may not later be applied toward a Master's Degree.

Each student admitted to the Graduate Study Program is immediately assigned an advisor by the Director of the Graduate Program. Members of the Graduate Faculty serve as graduate advisors, and advisors are assigned according to the graduate academic major. Graduate students are expected to meet with their advisors prior to enrollment to plan their program and to meet with their advisors periodically for further advisement.

REQUIREMENTS FOR THE MASTER'S DEGREE IN EDUCATION

Degree Requirements

1. Candidates for the Master of Arts in Education degree will be required to successfully complete a minimum of thirty semester hours of course work in accordance with the prescribed course of study.
 - a. A minimum of twenty-four semester hours of graduate credit must be earned in courses designed for graduate students (500 level courses).
 - b. If necessary, the remainder of a student's program of graduate studies may be composed of courses designated as senior-graduate courses (prescribed 400 level courses).
 - c. No more than three semester hours of graduate credit earned in workshops courses may be applied toward a Master's degree.
 - d. Courses numbered 500 and above are graduate courses with the following number system: EDN 500-510, courses in educational administration and supervision; EDN 511-540, courses in curriculum and instruction; EDN 550-555, courses in educational psychology; and EDN 560-570, courses in foundations and research (EDN 599, Independent Study). Additional graduate courses by departments for concentration development and related areas are also numbered 500 and above.

2. Residence Credit

Candidates must have completed one semester of graduate residence at Pembroke State University. Graduate students may satisfy the residency requirement by being continuously enrolled and completing twelve semester hours of graduate study or by being intermittently enrolled and completing fifteen semester hours of graduate study.

3. Degree Time Limits

Graduate credit applied toward the Master's degree should have been completed within five years preceding the completion of the requirements for the degree.

4. Credits by Transfer, Extension or Correspondence

The combined total of graduate credit earned in another recognized graduate school and through extension study and allowed by the Graduate Council to apply toward the Master's degree may not total more than six semester hours.

No credit applied toward a graduate degree may be obtained by correspondence study.

No graduate study credit earned at another recognized graduate school and transferred to Pembroke State University or graduate study credit earned through extension will be allowed by the Graduate Council to apply toward meeting the residence requirement for a Master's degree.

5. Comprehensive Examination

A candidate for the Master of Arts in Education degree, in addition to the regular examinations in courses taken for graduate credit, must pass a written comprehensive examination.

The comprehensive examinations must be administered at least four weeks before the end of the semester in which the candidate expects to receive the degree and may be given earlier with the approval of the candidate, the candidate's advisor, and the Director of the Graduate Program. Comprehensive examinations will be administered during the fall or spring semester when the student completes a program or when the final semester of course work is in progress. Students must wait at least one semester before retaking comprehensives. Any student who fails any part or parts of the comprehensive examinations twice becomes ineligible to continue graduate study. An individual who adds a new specialty area to his or her existing teaching certificate must pass comprehensives in that area.

6. Certification/NTE

The North Carolina State Board of Education requires a satisfactory specialty area score for each new area of certification added to existing certifications.

7. Thesis

A thesis may be accepted for the Master of Arts in Education degree.

Three to six semester hours of graduate credit in the student's major may be earned in preparation of the thesis and applied toward the requirements for a Master's degree.

A thesis project must be approved by the graduate student's advisor and by the thesis committee.

The advisor will supervise the preparation of the prospectus of the thesis, approve it, submit it to the graduate student's thesis committee for approval, direct the student in the preparation of the thesis, assemble and chair the committee for the oral examination of the student on the thesis, inform the student of the calendar dates when the final copies of the thesis are due in the Graduate Program Office, and inform the student of the graduate studies program and University rules which apply.

A minimum of three copies of the thesis—the original and two copies, carbon or acceptable electrographic (one for student, one for archives, one for circulation)—and an abstract must be in the hands of the Director of the Graduate Program at least two weeks before the Commencement at which the degree is to be conferred. Two of the copies must be bound and will be retained by the University. Binding will be arranged by the library and the student will be charged at actual cost.

Students who choose to write a thesis are exempt in some programs from written comprehensives.

8. Application for Graduation

Application for graduation must be filed in the Office of the Director of the Graduate Program not later than four weeks after the beginning of the semester or the summer session in which the candidate expects to receive the degree.

9. Conferring of Degrees

Candidates for the degree are required to be present at the commencement exercises in the prescribed dress.

Graduate Grading System

The grading system for the graduate studies program follows:

- A—Superior
- B—Satisfactory
- C—Poor
- F—Failure
- I— Course work incomplete, must be removed within one year after the end of the course or the I becomes an F.
- T—Grade pending, used only for thesis research courses until the sequence of courses is completed.

A graduate student with an accumulation of nine semester hours of less than “B” quality work will be automatically eliminated as a candidate for a Master’s degree.

A graduate student who makes an “F” will be eliminated as a candidate for a Master’s degree except when it is recommended that the student be accepted or continued as a candidate by a committee composed of the student’s advisor and two other graduate faculty members and when the recommendation is approved by the Graduate Council.

PROGRAM OF STUDY

The Master of Arts in Education degree may be conferred upon a candidate for the degree who completes the prescribed program of work for one of the specialties described by the following curricula. Each program requires the successful completion of at least thirty semester hours of graduate study inclusive of course work and a thesis, if one is written, as planned and approved by the thesis committee.

1. Elementary Education (K-6)

	Sem. Hrs.
A. Required	12
1. EDN 541 - Curriculum and Foundations in Elementary Education	
2. EDN 553 - The Child as a Learner	
3. EDN 566 - Educational Research	
4. EDN 519 - Language Development and Reading in the Elementary School (K-6)	
B. Guided Electives from Education Emphasizing Elementary Education.....	9
1. EDN 517 - Mathematics in the Elementary School (K-6)	
2. EDN 520 - Science in the Elementary School (K-6)	
3. EDN 521 - Social Studies in the Elementary School (K-6)	
C. Guided Electives from Appropriate 400 and 500 Level Courses in American Indian Studies, Art, Biology, Communicative Arts, Economics, Geology and Geography, Health, Physical Education and Recreation, History, Mathematics, Music, Philosophy and Religion, Physical Science, Political Science, and Sociology	6
1. American Indian Studies: Appropriate 400 Level Courses	
2. Art: Appropriate 400 Level Courses	
3. Biology	
a. Appropriate 400 Level Courses	
b. BIO 512 - Environmental Science	

4. Communicative Arts: Appropriate 400 Level Courses	
5. Economics	
a. Appropriate 400 Level Courses	
b. ECN 551 - Economic Policies	
6. Geology and Geography	
a. Appropriate 400 Level Courses	
b. GGY 503 - Descriptive Regional Analysis	
c. GLY 501 - Earth Science	
7. Health, Physical Education and Recreation	
a. Appropriate 400 Level Courses	
b. HPE 505 - Principles of Health and Physical Education	
8. History	
a. Appropriate 400 Level Courses	
b. HST 510 - Advanced North Carolina History	
c. HST 520 - History of the South	
d. HST 540 - Topics in History	
9. Mathematics and Computer Science	
a. Appropriate 400 Level Courses	
b. CSC 505 - Current Topics in Computers in Education	
10. Music: Appropriate 400 Level Courses	
11. Philosophy and Religion: Appropriate 400 Level Courses	
12. Physical Science	
a. Appropriate 400 Level Courses	
b. PHS 520 - Current Trends in Physical Science	
13. Political Science	
a. Appropriate 400 Level Courses	
b. PLS 540 - Systems of State and Local Government	
c. PLS 545 - American Political Process	
14. Psychology	
a. Appropriate 400 Level Courses	
b. PSY 525 - Advanced Study of Human Growth and Development	
c. PSY 530 - Psychology of Group Dynamics	
15. Sociology	
a. Appropriate 400 Level Courses	
b. SOC 545 - Cultural Differences and Education	
c. SOC 560 - Education and Society	
D. Elective	3
E. Thesis	0-6
F. Independent Study	0-3
	<hr/>
TOTAL HOURS (Minimum)	30

**Courses transferred from other Universities.

1. _____
2. _____
3. _____

2. Middle Grades Education (6-9)

	Sem. Hrs.
A. Required Educational Core	9
1. EDN 552 - Psychology of the Emerging Adolescent (6-9)	
2. EDN 516 - Middle Grades Curriculum (6-9)	
3. EDN 566 - Research in Middle Grades (6-9)	
4. - Course(s) Designated for Subject Matter Area (If Required)	
B. Guided Electives from the Subject Matter Areas of Language Arts, Mathematics, Reading, Science, and Social Studies	24
Candidates will choose two twelve hour areas for Middle Grades Certification and degree requirements. Study in these areas should represent an extension of undergraduate work. If new areas are chosen, comprehensive examinations will be taken on the courses designated for those areas.	
1. Language Arts	
a. EED 551 and EED 552	
b. Plus two of the following: CMA 470, 520, 521, 514, 538, 565, 566; EDN 532, 530; EED 542, 543	
2. Science: four courses from the following	
a. EDN 520	
b. BIO 512	
c. GLY 501	
d. PHS 520	
e. PHY 448	
3. Social Studies: four courses from the following	
a. ECN 551	
b. HST 510	
c. PLS 540 or PLS 545	
d. SOC 545	
e. other 500-level options (may be taken for up to two courses of the four that are required): HST 520, HST 540; PLS 535; SOC 560	
4. Mathematics: four courses from the following	
a. MAT 500 (Required)	
b. MAT 501	
c. MAT 502	
d. MAT 503 (Required)	
e. MAT 505	
f. MAT 506	
g. MAT 521	
h. CSC 505	
C. Thesis	0-6
D. Independent Study	0-3
TOTAL (Minimum)	33

*This curriculum includes requirements for graduate certification in Middle Grades Education (6-9). Successful completion of the above programs will lead to the Master of Arts Degree.

3. Elementary Education (Reading Education)

	Sem. Hrs.
A. Required Education Core.....	15
1. EDN 516 - Curriculum Development	
2. EDN 519 - Language Development and Reading in the Elementary School	
3. EDN 534 - Diagnosis and Correction of Reading Difficulties	
4. EDN 550 - Advanced Educational Psychology	
5. EDN 566 - Educational Research	
B. Guided Course Work Emphasizing Reading Education.....	15-21*
The specific number of semester hours and areas of study required of the student will be determined on the basis of the student's prior background in Reading Education at the time of entry into the Program. Courses will be selected from the following (*May include thesis):	
1. PSY 442 - Psychology of Language	
2. EDN 527 - Practicum in Reading Instruction	
3. EDN 528 - Planning the School's Reading Program	
4. EDN 529 - Problems in the Investigation of Reading Instruction	
5. EDN 530 - Reading in the Content-Areas	
6. EDN 531 - Principles of Testing and Measurement in Reading	
7. EDN 532 - Reading for Diverse Learners	
8. EDN 533 - Leadership for Classroom Reading Instruction	
9. EDN 535 - Psychology of Reading	
10. EDN 536 - Foundations of Reading Instruction, I	
11. EDN 537 - Foundations of Reading Instruction, II	
12. EDN 538 - Advanced Diagnosis of Reading Difficulties	
13. EDN 539 - Reading Clinic	
14. EDN 540 - Preparation and Selection of Materials for Teaching Reading	
C. Guided Electives from Appropriate 400 and 500 Level Courses in Reading Education	0-6
D. Thesis	0-6
E. Independent Study	0-3
TOTAL (Minimum)	30

4. Educational Administration and Supervision (Administration)

	Sem. Hrs.
A. Required	18
1. EDN 500 - Educational Leadership	
2. EDN 501 - Principles of Supervision	
3. EDN 502 - Legal Structures in Education	
4. EDN 506 - Internship and Seminar in Administration	
5. EDN 516 - Curriculum Development	
6. EDN 566 - Educational Research	
B. Guided Elective from Educational Psychology or Psychology	03
1. EDN 550 - Advanced Educational Psychology	
2. PSY 530 - Psychology of Group Dynamics	
3. PSY 525 - Advanced Study of Human Growth and Development	
C. Guided Electives from Business Administrative, Economics, Geography, History, Political Science, Psychology, Sociology, Computer Science*	06

1. ECN 551- Economics Policies	
2. GGY 503 - Descriptive Regional Analysis	
3. PLS 535 - Advanced Public Administration	
4. PLS 540 - Systems of State and Local Government	
5. PLS 545 - American Political Process	
6. *CSC 505 - Current Topics in Computers in Education	
D. Guided Electives in Subject Matter or Professional Education	0-6
1. EDN 503 - School Finance	
2. BUS 408 - Personnel Management	
3. EDN 505 - School Facilities	
4. EDN 565 - History and Philosophy of Education	
E. Thesis.....	0-6
F. Independent Study	0-3
TOTAL (Minimum)	33

Courses transferred from other universities.

1. _____
2. _____

***REQUIRED**

5. Educational Administration and Supervision (Supervision)

	Sem. Hrs.
A. Required	18
1. EDN 500 - Educational Leadership	
2. EDN 501 - Principles of Supervision	
3. EDN 502 - Legal Structures in Education	
4. EDN 507 - Internship and Seminar in Supervision	
5. EDN 516 - Curriculum Development	
6. EDN 566 - Educational Research	
B. Guided Electives in Educational Psychology and Psychology	03
1. EDN 550 - Advanced Educational Psychology	
2. PSY 530 - Psychology of Group Dynamics	
3. PSY 525 - Advanced Study of Human Growth and Development	
C. Required	06
1. EDN 565 - History and Philosophy of Education	
2. CSC 505 - Current Topics in Computers in Education	
D. Guided Electives in Academic Specialization	09
E. Thesis	06
F. Independent Study	03
TOTAL (Minimum)	36

6. English Education

	Sem. Hrs.
A. Core Courses (15 hours required)	15
1. EED 500 - Foundations of Literacy and Literature Education	

2. EED 551 - The Teaching of Writing	
3. EED 552 - The Teaching of Literature	
4. EDN 550 - Advanced Educational Psychology	
5. EDN 566 - Educational Research	
B. Literacy Emphasis (6 hours required; up to 9 hours accepted)	6-9
1. CMA 470 - Advanced Writing and Editing*	
2. CMA 475 - Film Literacy*	
3. CMA 520 - Issues in Contemporary American English	
4. CMA 521 - Mass Media in the Secondary School	
5. CMA 522 - Journalism in the Secondary School	
6. EED 542 - Teaching English as a Second Language	
7. EED 543 - Teaching Speech Communication and Drama	
8. EED 544 - Process Writing: Theory	
9. EDN 532 - Teaching Reading to Diverse Learners	
C. Literature Emphasis (9 hours required**; up to 12 hours accepted)	9-12
1. CMA 457 - Shakespeare*	
2. CMA 514, 515, 516, 517 - Special Topics Seminar	
3. CMA 537, 538, 539, 540 - Figures Seminar	
4. CMA 562, 563, 564, 565 - Epochs Seminar	
5. CMA 566, 567, 568, 569 - Genre Seminar	
D. Cognate Electives (0 hours required; up to 3 hours accepted**)	0-3
1. EED 545 - Process Writing: Practicum	
2. EDN 529 - Problems in Investigation of Reading Instruction	
3. EDN 530 - Reading in the Content Areas	
4. EDN 551 - Diagnosis and Evaluation of Pupils and Programs	
5. EDN 565 - History and Philosophy of Education	
6. PHI 423 - Philosophy of Art and Beauty*	
7. PSY 422 - Seminar in Psycholinguistics*	
8. SOC 545 - Cultural Differences and Education	
9. Thesis - 6 hours**	
Program Total:	33

*No more than six hours of credit in 400-level courses is permitted.

**Students electing to write a thesis on a literary topic will satisfy three hours of the literature requirement through the thesis. The other three thesis hours will apply to section IV. Cognate Electives. Six hours credit may be transferred from other universities.

7. Mathematics Education

	Sem. Hrs.
I. Mathematics and Computer Science; Required	21
A. Analysis; Required	6 Sem. Hrs.
1. MAT 521 - Basic Ideas of Analysis I (Alternate yrs.)	
2. MAT 522 - Basic Ideas of Analysis II (Alternate yrs.)	
3. MAT 523 - Real Analysis	
4. MAT 532 - Advanced Calculus for the Mathematics Teacher	
5. MAT 544 - Complex Analysis for the Mathematics Teacher	
B. Algebra and Number Theory; Required	3 Sem. Hrs.
1. MAT 512 - Geometric Linear Algebra	

2. MAT 515 - Topics in Number Theory	
3. MAT 526 - Special Topics in Abstract Algebra	
C. Geometry and Topology; Required	3 Sem. Hrs.
1. MAT 510 - Point Set Topology (Alternate yrs.)	
2. MAT 511 - Advanced Topics in Geometry (Alternate yrs.)	
D. Applied Mathematics; Required	3 Sem. Hrs.
1. MAT 503 - Elements of Problem Solving (required)	
2. MAT 506 - Probability and Statistics for Mathematics Teachers	
3. MAT 507 - Discrete Mathematics for the Mathematics Teacher	
E. Mathematics Electives	6 Sem. Hrs.
II. Mathematics Education; Required	9
A. MAT 500 - Curriculum Development and Evaluation in Math Ed. (Required)	
B. MAT 501 - Theoretical Bases of Mathematics Instruction	
C. MAT 502 - History of Mathematics	
D. CSC 505 - Current Topics in Computer Education (Required)	
III. Professional Education; Required	6
A. EDN 550 - Advanced Educational Psychology	
B. EDN 565 - History and Philosophy of Education	
C. EDN 566 - Educational Research (Required)	
IV. Thesis (Optional)	0-3
TOTAL (Minimum)	36

Credit for MAT 521 and MAT 522 is not counted unless both are taken.
If MAT 521 and MAT 522 are taken, then 9 semester hours of Analysis is required.

8. Mathematics Education - Computer Science Concentration

	Sem. Hrs.
A. Mathematics and Computer Science; Required	21
1. Analysis; Required	3
a. MAT 523 - Real Analysis	
b. MAT 532 - Advanced Calculus for the Mathematics Teacher	
c. MAT 544 - Complex Analysis for the Mathematics Teacher	
2. Algebra and Number Theory; Required	3
a. MAT 512 - Advanced Topics in Linear Algebra	
b. MAT 516 - Topics in Number Theory	
c. MAT 526 - Special Topics in Abstract Algebra	
3. Applied Mathematics and Computer Science; Required	15
Note: CSC 202 will provide candidates with a background in two (2) computer languages. No graduate credit will be given for CSC 202.	
a. MAT 507 - Discrete Mathematics for the Mathematics Teacher (Required)	
b. CSC 508 - Computer Graphics for the Mathematics Teacher (Required)	
c. CSC 509 - Programming and Algorithms for the Mathematics Teacher, I (Required)	
d. CSC 510 - Programming and Algorithms for the Mathematics Teacher, II (Required)	
e. MAT 503 - Elements of Problem Solving	
f. MAT 506 - Statistics and Probability for the Mathematics Teacher	
B. Mathematics Education; Required.....	9
1. MAT 500 - Curriculum Development and Evaluation in Math Ed. (Required)	
2. MAT 501 - Theoretical Bases of Mathematics Instruction	

3. CSC 505 - Current Topics in Computer Education	
4. CSC 511 - Computer Hardware in an Educational Setting	
C. Professional Education; Required	6
1. EDN 550 - Advanced Educational Psychology	
2. EDN 565 - History and Philosophy of Education	
3. EDN 566 - Educational Research (Required)	
D. Thesis (Optional)	0-3
TOTAL (Minimum)	36

COURSE DESCRIPTIONS

1. Education Department (EDN)

a. Curriculum and Instruction

NOTE: Where grade symbols (K-6; 6-9) appear it will mean that the course emphasis will be on Elementary Education or Middle Grades Education in accordance with the certification sought by the student.

512. Advanced Study of Exceptionality in Children

An introduction to and an analysis of the principles, problems, characteristics, and psychological aspects of children who have mental retardation; learning disabilities; visual impairments; hearing handicaps; communication disorders; behavior disorders multiple, severe, and physical handicaps; as well as talents and gifts. Contemporary issues in special education as they relate to the inservice educator are explored.

513. Individualized Program Development for Exceptional Students

The focus of this course is the development and implementation of individualized educational programs for the total development of exceptional students. Topics include legal requirements, assessing individual performances, placement and related services, developing long-range and short-term objectives, monitoring and evaluating the IEP, and conferencing/communication skill-building.

514. Management of Exceptional Students in the General Classroom

This course is designed to provide the general classroom teacher and administrative supervisory personnel with a study of the instructional and behavioral techniques, materials, and resources used in the education of mainstreamed students. Emphasis is on disabled, educable mentally handicapped, and emotionally handicapped students.

516. Curriculum Development (K-12); (6-9)

Principles, techniques, trends, and innovations which have emerged in the field of curriculum construction and revision. Implications of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning and development. The student will acquire competency in the employment of techniques and practices to improve instruction, such as core curriculum, cultural epochs, correlation of subject matter, and unit construction.

517. Mathematics in the Elementary School

Advanced study of mathematics content, processes, and developmentally appropriate methodology for teaching mathematics in the elementary school. Study will include review of research on how children learn mathematics as well as a review of research of mathematics methodology for elementary children. Spring, Summer. Credit, 3 semester hours.

519. Language Development and Reading in the Elementary School (K-6)

Development of a dynamic language arts program tied into the total background and school experience of the child. The program will include the total language arts program in its various interrelationships. Included are the interactions of children of all ages, the child's search for appropriate linguistic construction, and writing and reading developed through growing perceptual skills and tied to the developing vocabularies of individual children. Listening, speaking, discussing, spelling, writing, and reading through choice and involvement.

520. Science in the Elementary School (K-6)

A combination of subject matter, materials, and methods for teaching science in the elementary school.

521. Social Studies in the Elementary School

An overview of the total program in social studies education for children in early childhood and intermediate age groups. Emphasis given to content, materials, and methods of teaching the social studies.

527. Practicum in Reading Instruction

Designed for the graduate student with previous teaching experience who is interested in pursuing research in the area of reading.

528. Planning the School's Reading Program

A study and evaluation of selected curricula and programs in reading and the planning of a total school reading program.

529. Problems in the Investigation of Reading Instruction

Investigations are made of the literature and research dealing with the teaching of reading in the elementary and secondary classrooms. The course includes a critical examination of the scientific studies, the nature of the reading act, and factors that facilitate effective reading instruction.

530. Reading in the Content-Areas

This course is designed to provide teachers with knowledge of established and innovative practices of teaching in a variety of content-areas, such as mathematics, social studies, and health.

531. Principles of Testing and Measurement in Reading

Prerequisite: 9 semester hours of previous course work in reading.

This course provides a fundamental development of the features and roles of measurement in reading education with emphasis being given to understanding teacher-made and standardized tests and scales. Consideration will be given to statistical concepts of measurement as they apply in reading education.

532. Teaching Reading to Diverse Learners

This course will explore a variety of theories and techniques for teaching reading to diverse learners, such as preschoolers, adults, culturally disadvantaged, bilingual, and exceptional students.

533. Leadership for Classroom Reading Instruction

Prerequisites: EDN 528, EDN 530, and 6 semester hours of additional graduate level course work in reading.

This course is designed to aid the special reading teacher in filling several diverse roles within a school setting. Special emphasis will be given to the roles of lead-teacher and resource-teacher especially in terms of aiding the classroom teacher with developmental and corrective reading classes. The course will include a supervised field-based component whereby the student gains practical experience working in leadership roles with classroom teachers.

534. Diagnosis and Correction of Reading Difficulties

This course will assist the teacher of reading in locating causes of reading difficulties and prescribing corrective procedures. It is designed to give the classroom teacher practical application of methods in solving reading problems. It will include sample lessons and demonstration of remedial methods.

535. Psychology of Reading

A study of the psychological factors in learning to read, in reading ability, in reading disabilities, and in the bases for instructional methods and materials in reading.

536. Foundations of Reading Instruction I

Restriction: May be taken only by those students without any background or current "A" level certification in reading, or permission of the instructor.

This course is designed to familiarize the non-reading teacher with the basic concepts and skills related to the teaching of reading. Emphasis will be given to the organization and management of reading instruction within the classroom. The basic skills of reading growth and their scope and sequence will be developed. Familiarity with reading instructional materials and methods will be attained.

537. Foundations of Reading Instruction II

Restriction: May be taken only by those students where seven years have elapsed since their last reading course or those students with an invalid "A" certificate in reading, or permission of the instructor.

This course is designed to update the student's background in the teaching of reading. Emphasis will be placed upon familiarizing the student with recent changes in materials, methods, and skills related to reading instruction. The course will also serve as a review and extension of previous course work in reading for those students whose background is weak.

538. Advanced Diagnosis of Reading Difficulties

Prerequisite: EDN 534 or the equivalent.

This course is designed to provide the reading teacher with advanced study in the determination and evaluation of reading difficulties. Students will be expected to complete, under supervision, in-depth case studies of children with suspected reading difficulties.

539. Reading Clinic

Prerequisite: EDN 538, or may be taken concurrently with EDN 538.

This course is designed to provide the reading teacher with practical experiences remediating students' reading difficulties. The reading teacher will work one-on-one and with small groups of children in a supervised laboratory setting.

540. Preparation and Selection of Materials for Teaching Reading

Prerequisites: 15 semester hours of graduate level course work in reading; recommendation of graduate advisor; and consent of instructor.

This advanced level course is designed to enable the reading teacher to evaluate and select materials in terms of specific instructional situations and needs. Additional emphasis will be given to the processes of design, development, and preparation of instructional materials for specific reading instructional needs.

541. Curriculum and Foundations in Elementary Education

A study of curriculum and foundations including purposes, content, principles, learner, techniques, trends, and innovations in Elementary Education.

b. Educational Administration and Supervision**500. Educational Leadership**

Required of candidates for the Master of Arts in Education degree who are preparing for certification as principals or supervisors. Emphasis is given to educational purposes, school program development, group leadership functions, management of school facilities, community-school interaction, and intraschool and interschool coordination.

501. Principles of Supervision

Analysis of issues, problems, and practices in supervision of instruction. Development and synthesis of a conceptual structure for guiding group process and individual leadership behavior in curriculum research and development, inservice education, and evaluation of teaching and learning.

502. Legal Structures in Education

Constitutional, statutory, and case law bases of educational administration; a study of legal provisions and principles relating to education at all levels. Includes research and analysis of laws dealing with pertinent educational topics.

503. School Finance

Problems relating to financing public education; theory of taxation, types of taxes; current practices of educational finance; federal, state and local support of education formulas for distribution of school aids; budget; procuring revenue; financial capital outlays. Financing school plant construction; maintenance of the plant; insurance of property; taking inventory; and school supplies. Includes the construction of a school budget.

505. School Facilities

Study of the problems involved in financing the construction of school facilities, the procurement of architectural services, the cooperative development of educational specifications, and the construction of school facilities. Includes the management of school facilities for maximum and optimal use; planning for equipment acquisition, circulation and maintenance; and the analysis of the facilities problems of schools and school systems.

506, 507. Internship and Seminar in Administration and/or Supervision

The internship is a significant part of the Master's program in Administration and Supervision, involving experiences under the supervision of a selected professional practitioner chosen for the internship. The internship is coordinated by a University faculty member. Plans for the internship must be made in advance with the faculty advisor, after appropriate course work, and in terms of available practicum opportunities in instructive and administrative aspects of an individual school and/or school system and approved by the Office of the Graduate Program.

c. Educational Psychology

550. Advanced Educational Psychology

Prerequisites: Introduction to Educational Psychology and the Psychology of Early Childhood, or Adolescence.

A course designed especially for teachers, supervisors, and administrators reviewing modern principles of educational psychology, with particular attention to theories of learning, individual differences, assessment of behavior, personal and social adjustment, and their application to problems of school learning at any level of responsibility.

552. Psychology of the Emerging Adolescent (6-9)

An analysis of the implications of physical, cognitive, socio-emotional, and moral development as they influence the behavior, learning, and adjustment of emerging adolescents. The theories of Ericson, Piaget, and Adler will be examined. Practical classroom application of theory and research will be emphasized.

553. The Child as a Learner

A foundational course in further studying child growth and development as it relates to the teaching-learning situation.

d. Foundations and Research

560. Sociological Foundations of Education

Contemporary social problems and subcultures which relate to patterns of public education. A sociological analysis of the nature of the school and its impact on the community and on patterns of instruction. Anthropological and sociological materials will be employed.

565. History and Philosophy of Education

Traces the history of educational thought and practice in the western world from ancient times to the present. Included are analysis and interpretation of important elements of modern education derived from leading philosophies throughout history.

566. Educational Research

Required to all candidates for the Master of Arts in Education degree. Emphasis is given to research design and methods in education, the reading of statistical terminology in professional literature, and the interpretation and application of educational research. Use of library resources, evaluation of educational research, and an introduction to elementary statistics are included.

599. Independent Study

An independent study of the problems and issues of education relevant to the student's major study areas or areas of concentration carried out by the student at the University and in the field under the supervision of the student's major advisor.

600. Thesis in Education

Prerequisites: Completion of 21 semester hours of graduate work; EDN 566; permission of the student's major advisor; and permission of the Director of Graduate Studies. The student prepares a Master's Degree thesis in the area of the student's major under the individual direction of the student's major advisor and thesis committee. Graded on a Satisfactory [Pass (P)], Unsatisfactory [Fail (F)] basis. Credit, 3-6 semester hours.

2. Communicative Arts Department (CMA)

English Education: The Teaching of Literacy and Literature

To enhance the English educator's understanding and knowledge of English language, writing, and literature, the graduate program in English Education seeks to encompass the entire continuum of literacy and literature. Broader than the traditional Master's program in English, the Pembroke State program is multidisciplinary and aims at helping in-service teachers prepare both the linguistically talented for higher education and the linguistically limited for the world of work. Additionally, many courses in the program will be of interest to teachers in related fields and to individuals with particular interests or needs. M.A.Ed. students in English Education may elect to do a six-semester-hours thesis project.

The courses in the Master of Arts in English Education in the Teaching of Literacy and Literature are grouped into four areas:

CORE COURSES (15 hours required)

EED 500. Foundations of Literacy and Literature Education

Historical foundations for the development of education in English in western cultures; philosophy of secondary education and its relationship to English and communication programs; interpretation of teaching strategies as they relate to English education; recent trends in the theory and practice of literacy and literature education, particularly as these relate to curriculum design.

EED 551. The Teaching of Writing

Composition theory; generating effective writing; multiple modes of evaluating writing from remedial, average, and gifted students; successful pedagogical models; relevant learning theory; projects involving field experience.

EED 552. The Teaching of Literature

Topics, trends and techniques; theory and criticism in teaching; trends in adolescent literature, state-adopted texts; testing and evaluation techniques; relevant learning theory; projects involving field experience.

EDN 550. Advanced Educational Psychology

A course designed especially for teachers, supervisors, and administrators reviewing modern principles of educational psychology, with particular attention to theories of learning, individual differences, assessment of behavior, personal and social adjustment and their application to problems of school learning at any level of responsibility.

EDN 566. Educational Research

Emphasis is given to research design and methods in education, the reading of statistical terminology in professional literature, and the interpretation and application of educational research. Use of library resources, evaluation of educational research, and an introduction to elementary statistics are included.

LITERACY EMPHASIS (6 hours required; up to 9 hours accepted)

CMA 470. Advanced Writing and Editing

Intensive study of English usage and punctuation; practice in diverse modes and tactics of writing; editing publishable materials to standards of present-day American English.

CMA 475. Film Literacy

A course in film analysis including an introduction to elements of film study, a brief survey of film history, and an examination of significant directors, themes, or types of film.

CMA 520. Issues in Contemporary American English

Study of the characteristic features of contemporary American English in print and non-print media, dynamic factors in linguistic change; concerns about the state of American English today.

CMA 521. Mass Media in the Secondary School

Exploration of the function and uses of mass media in the secondary school classroom. Emphasis will be placed on relationships between media use and literacy; use of media as an instructional tool; and effect of media use on the student.

CMA 522. Print Journalism in the Secondary School

The course introduces teachers to the use of print media in teaching reading and composition, and will emphasize teaching news, feature, and editorial writing.

CMA 544. Process Writing: Theory

Prerequisites: (1) Acceptance into North Carolina Writing Project at Pembroke State University, (2) To be taken simultaneously with EED 545.

Studies of the theoretical bases of process writing, especially those identified with The National Writing Project and The North Carolina Writing Project. Special attention to sequence in writing, discourse analysis, and rhetoric; and to research related to process writing, grading, and evaluation. Summer Only.

EDN 532. Teaching Reading to Diverse Learners

This course will explore a variety of theories and techniques for teaching reading to diverse learners, such as pre-schoolers, adults, culturally disadvantaged, bilingual, and exceptional students.

EED 542. Teaching English as a Second Language

Problems in introducing the grammar and idioms of American English to immigrant populations, both school age and adult, with emphasis on the former; materials and methods.

EED 543. Teaching Speech Communication and Drama

Study of characteristic forms of speech communication and drama as classroom and extracurricular activities; techniques of teaching and evaluating verbal and non-verbal performance.

LITERATURE EMPHASIS (9 hours required; up to 12 hours accepted)**CMA 457. Shakespeare**

An introduction to the Elizabethan theatre, a study of Shakespeare's career as a dramatist, and a critical survey of a number of major plays—histories, comedies, and tragedies.

CMA 514, 515, 516, 517. Literature: Special Topics

A seminar approach to the study of a particular literary topic; special emphases such as dynamic changes in literature of specific minorities or cultures, or literature in its relationship to another medium or discipline; extended seminar papers examining individual themes, writers, or works. Course content will vary from term to term. Possible topics include Southern Literature, American Indian Literature, Black Literature, Journalism and the New Journalism, and Literature in Film Adaptation.

CMA 537, 538, 539, 540. Literature: Figures Seminar

A seminar approach to the study of one major literary figure (or perhaps a few major figures); extended seminar papers exploring particular works, themes, characteristics, or problems. Course content will vary from term to term. Possible topics include Chaucer, Faulkner, Mann, Pope & Swift, Milton, and Emerson & Thoreau.

CMA 562, 563, 564, 565. Literature: Epochs Seminar

A seminar approach to the study of a significant period of American, British, or world literature; seminar papers appraising characteristics of the epoch or an individual's shaping influences on the epoch. Course content will vary from term to term. Possible topics include The Romantic Rebellion, Literature of the English Renaissance, American Transcendentalism, and Eighteenth Century Studies.

CMA 566, 567, 568, 569. Literature: Genre Seminar

A seminar approach to the study of a particular literary type seen in its genesis, maturation, and subsequent influence; seminar papers exploring the contributions of a specific figure or major work to the development of the genre. Course content will vary from term to term. Possible topics include Development of the American Short Story, The Victorian Novel, Studies in Modern World Drama, The Epic, and Biography.

COGNATE ELECTIVES (0 hours required; up to 3 hours accepted)**CMA 545. Process Writing: Practicum**

Prerequisites: (1) acceptance into the North Carolina Writing Project at Pembroke State University (2) To be taken simultaneously with EED 544.

Applications of process writing, especially those identified with the National Writing Project and The North Carolina Writing Project. Special attention to heuristics, conferencing, and sentence-combining and to practice, including those of T.D. Allen, that have proven effective in Southeastern North Carolina. Summer only.

CMA 546, 547. Process Writing: Directed Studies

Prerequisites: CMA 544 and CMA 545

Advanced studies in theoretical bases and applications of process writing, especially those identified with the National Writing Project and the North Carolina Writing Project. Individual projects and/or field experiences will be included. Summer Credit, 3 semester hours.

EDN 529. Problems in the Investigation of Reading Instruction

Investigations of literature and research dealing with the teaching of reading in the elementary and secondary classroom. The course includes critical examination of the scientific studies, the nature of the reading act, the factors that facilitate effective reading instruction.

EDN 530. Reading in the Content Areas

This course is designed to provide teachers with knowledge of established and innovative practices of teaching reading in a variety of content-areas, such as mathematics, social studies, and health.

EDN 565. History and Philosophy of Education

Traces the history of educational thought and practice in the western world from ancient times to the present. Included are analysis and interpretation of important elements of modern education derived from leading philosophies throughout history.

PSY 422. Seminar on Psycholinguistics: Psychology of Language

Theories and research on the learning and use of language; includes speech perception, child language development, word meanings, deafness, and other related topics.

PHI 423. Philosophy of Art and Beauty

Aesthetic values in nature, art, literature, music, and drama.

SOC 545. Cultural Differences and Education

Sociological analysis of the educator's problems of insight and judgment when dealing with students, parents, townspeople, or colleagues who come from different cultural backgrounds; specific focus upon the problems of ethnocentrism as encountered by classroom teachers and administrators; explanation of teaching situations in terms of culture theory and cross cultural communication.

3. Mathematics Department (MAT)

MAT 500. Curriculum Development and Evaluation in Mathematics Education

A critical study of current issues, trends, and the design and evaluation of curriculum in mathematics education. Students will develop, use, and evaluate a teaching unit as a major part of the work in this course. Required of all master's candidates in mathematics education.

MAT 501. Theoretical Bases of Mathematics Instruction

An advanced study of the theoretical bases of mathematical instruction, including philosophical and psychological concerns. Instructional theories from the field of mathematics education will be examined, together with the research that supports these theories.

MAT 502. History of Mathematics

A historical development of selected topics in mathematics from ancient to modern times. Systems of numeration, geometrical notions, and the development of algebra and analysis with motivational and pedagogical relevance will be given emphasis.

MAT 503. Elements of Problem Solving

This course strengthens the student's mathematical problem-solving ability by extensive work with non-routine problems that can be solved by elementary methods. General strategies for creative problem-solving will be emphasized. Meaningful ways of dealing with such problems in the secondary school classroom will constitute a significant part of the course. Required of all masters candidates in mathematics education.

MAT 505. Elements of Mathematics for the Middle Grades Teacher

The content of this course is intended to provide teachers at the middle school level with the mathematics they need in order to be effective in the classroom. Topics include sets, metric geometry, and introductory algebra. These topics will be handled from a problem-solving point of view.

MAT 506. Statistics and Probability for the Secondary Mathematics Teacher

The emphasis of this course will be on understanding various statistical concepts and techniques including measures of central tendency, correlation coefficients, hypothesis testing, analysis of variance, and inferential statistics. The fundamentals of probability that will be discussed include univariate and multivariate distributions, expectation, conditional distributions, and the law of large numbers.

MAT 507. Discrete Mathematics for the Math Teacher

This course will stress applications of Discrete Mathematics and such discrete techniques as are now, or should be, found at the secondary level. Mathematical modeling will be an underlying concept of the course.

MAT 510. Point Set Topology

Elements of point set topology, separation properties, compactness, connectedness, functions, Tietze extension theorem, fundamental group, and covering spaces.

MAT 511. Advanced Topics in Geometry

Topics chosen to improve the secondary mathematics teacher's mastery, breadth of knowledge, and appreciation of classical geometry. Content variable, but chosen to minimize duplication with recent and current MAT 411 classes.

MAT 512. Advanced Topics in Linear Algebra

2- and 3-dimensional linear algebra over the numbers; geometric interpretations; and topics chosen to improve secondary teachers' breadth in and knowledge of Linear Algebra.

MAT 515. Topics in Number Theory

Topics chosen to improve the secondary mathematics teacher's mastery, breadth of knowledge, and appreciation of classical number theory. Content variable, but chosen to minimize duplication with recent and current MAT 415 classes.

MAT 521. Basic Ideas of Analysis I

A brief survey of the principal ideas and techniques of Calculus. Intended as a refresher course for high school teachers who feel the need for an understanding of Calculus in order to prepare their students for college work.

MAT 522. Basic Ideas of Analysis II

A continuation of MAT 521. This course continues developing the principal ideas and techniques of Calculus. Topics considered in 521 and 522 will generally coincide with topics covered in a three-semester Calculus sequence. (Any student taking MAT 521, and MAT 522, will be required to take three additional semester hours of Analysis.)

MAT 523. Real Analysis

Real number system; open and closed sets, covering properties, Borel sets. Measurable sets and measurable functions. Lebesgue measure and integration, LP spaces.

MAT 526. Special Topics in Abstract Algebra

Selected topics from group, ring, and field theory that have implications to the secondary curriculum will be chosen for study.

MAT 532. Advanced Calculus for the Mathematics Teacher

A general overview of the topics generally found in Advanced calculus I and II. Topics include convergence, mean value theorems, cauchy criterion, integrability, multivariable functions, and the representations of functions by series and integrals.

MAT 544. Complex Analysis for the Mathematics Teacher

The complex numbers, analytic functions, conformal mapping, contour integration, Cauchy's theorem and integral formula. Taylor and Laurent expansions, residues, analytic continuation. Liouville's theorem.

CSC 505. Current Topics in Computers in Education

Prerequisite: Consent of the instructor.

Use of computers in Education. Discussion, use, and evaluation of computer software and hardware for the classroom. Applications to curriculum development. The course will include a required lab.

CSC 508. Computer Graphics for the Mathematics Teacher

This course introduces graphics appropriate to classroom settings at the pre-college level. Graphics that will be dealt with include various algebraic, geometric, and trigonometric relations. Methods that will be used include direct programming as well as the introduction of commercially available software designed for this purpose.

CSC 509. Programming and Algorithms for the Mathematics Teacher I

Programming in the PASCAL language, representations of data, constants, and variables (numeric and string), subprograms. Searching, sorting, and merging. More complex problem solving through computer programming. Stepwise refinement of programs. Principles of documentation.

CSC 510. Programming and Algorithms for the Mathematics Teacher II

An extension of programming in the PASCAL language. Principles of good programming style will be stressed. Debugging and testing of programs written by others. String processing. Advanced methods of searching and sorting. Recursion and its application to programming. Stacks and linked lists. Records and built-up data types.

CSC 511. Computer Hardware in an Educational Setting

A study of the various components that make up computer configurations in public school settings. Comparison of the various types of computer hardware available for use in the school. Particular attention will be given to evaluation of hardware for laboratory situations with both individual and networking of computers and computer terminals.

4. ADDITIONAL COURSES BY DEPARTMENTS FOR CONCENTRATION DEVELOPMENT AND RELATED AREAS

a. Biology Department (BIO)

BIO 512. Environmental Science

Studies of air, soil and water pollution, including work begin undertaken to remedy these problems; wildlife and soil conservation; and human ecology, particularly as related to the population problems of the world today. Three full-day field trips required.

b. Business Administration and Economics Department (ECN)

ECN 551. Economic Policies

This course provides a comprehensive survey of the most significant relationships between the government sector and other parts of the American economy. Topics discussed include the following: Types of government, the nature of the private enterprise system and the role of government therein, the legal background for government action, the effects of politics and pressures, policies for economic growth, the problem of inflation, public and private debt, taxation, farm policy, labor legislation, consumer interests, conservation of natural resources, social security, foreign economic policy, and national defense. Significant current events and developments in economic policy are discussed as they occur.

c. Geology (GLY) and Geography (GGY) Department

GLY 501. Earth Science

Advanced study of the processes that control the seasons, the atmosphere, the weather, the wind systems of the world, the oceans, volcanic activity, earthquakes, and the formation of rocks and minerals.

GGY 503. Descriptive Regional Analysis

Qualitative definition of geographical regions in the light of human interests: physical, biotic, demographic and socio-cultural determinants; the relevance of regional factors for planning and policy issues in education, government, the economy, and the general welfare.

d. Health and Physical Education Department (HPE)

HPE 505. Principles of Health and Physical Education

Designed to acquaint students with the philosophy, the aims, the objectives, the principles, and the practices of an effective health and physical education program in the program schools.

e. History Department (HST)

HST 510. Advanced North Carolina History

An advanced study of the development of North Carolina from colonial beginnings to the present.

HST 520. History of the South

Prerequisite: Permission of the Instructor.

A political, economic, and cultural study of the southern region with emphasis on the characteristics which make it distinctive.

HST 540. Topics in History

Prerequisite: Permission of the Instructor.

This course will focus on one topic and explore it in great detail; the topic will be determined by the instructor specialization and will be announced in the schedule of courses. This course may be taken only once for credit.

f. Physical Science Department (PHS)

PHS 520. Current Trends in Physical Science

A lecture-discussion presentation of current developments and trends in chemistry and physics.

g. Political Science Department (PLS)

PLS 535. Advanced Public Administration

Emphasis is given to critical examination and analysis of principles, behavior, and problems and issues of public organization, management, and responsibility in the context of the American political systems.

PLS 540. Systems of State and Local Government

Systematic survey of municipal, county, special district, and state governments, with special emphasis on critical examination of their roles and problems in the decisionmaking process of respective political subdivisions.

PLS 545. American Political Process

Examination of American political and governmental institutions and analysis of their process, relationship, and roles in the dynamics of the political system.

h. Psychology Department (PSY)**PSY 525. Advanced Study of Human Growth and Development**

An exploration in-depth into developmental theory coupled with intensive study through observation and research of the age level most appropriate to the credential sought. There will be a basic text on developmental theory to provide a common core. This will be supplemented by extensive related reading and other appropriate activities.

PSY 530. Psychology of Group Dynamics

This course will deal with the dynamics of interpersonal relationships within small groups. Emphasis will be on the person's perception of oneself in relation to the group and the group's perception and reaction to the individual member. Theoretical and practical case studies will be investigated. Role playing will be emphasized.

PSY 535. Introduction to Counseling for Elementary Teachers

An introductory survey of counseling with emphasis on basic skills and knowledge of techniques, particularly as related to situations encountered by elementary classroom teachers. This course is both didactic (theories of counseling) and experiential (role playing in class). Opportunities for classroom discussion, professional feedback about skills, and video taping.

PSY 540. Special Topics in Counseling

This course will provide an opportunity for in-depth exploration of advanced areas and topics of interest.

i. Sociology Department (SOC)**SOC 545. Cultural Differences and Education**

Sociological analysis of the educator's problems of insight and judgment when dealing with students, parents, townspeople, or colleagues who come from different cultural backgrounds; specific focus upon the problems of ethnocentrism as encountered by classroom teachers and administrators; explanation of teaching situations in terms of culture theory and crosscultural communication.

SOC 560. Education and Society

This course serves the needs of public school teachers and administrators by analyzing social institutions in relation to public schools in the United States. No previous knowledge of academic sociology or cultural anthropology is assumed.



Faculty

THE FACULTY

The listing that follows includes full-time members of the faculty and administrative officers who hold faculty rank and/or who teach. The date indicated is the year of initial appointment.

- GEORGE T. AMMONS (1965), *Assistant Professor, Department of Business Administration and Economics*
B.S., UNC-Chapel Hill; CPA, State of North Carolina
- LARRY ARNOLD (1990), *Assistant Professor, Department of Music*
B.Mus., University of Nebraska; M.Mus., University of Wisconsin; Ph.D., University of Iowa
- MARY ALICE ARNOLD (1990), *Assistant Professor, Department of Art*
B.F.A., Illinois Wesleyan University; M.A., Art Education, Ed.D., University of Illinois at Urbana-Champaign
- ANDREW N. ASH (1989), *Associate Professor, Department of Biology*
B.S., Virginia Military Institute; M.S., North Carolina State University; Ph.D., University of Toronto
- DANIEL G. BARBEE (1988), *Associate Professor and Director of Master of Science in Administrative Studies Program*
B.S., Catawba College; M.A., Lehigh University; Ph.D., University of Tennessee
- RANDY BARKER (1989), *Lecturer, Department of Communicative Arts, and Technical Assistant for Performing Arts Center*
B.A., Weber State University; M.F.A., Brigham Young University
- JAMES J. BARDSLEY (1990), *Assistant Professor, Department of Business Administration and Economics*
B.S., Virginia Polytechnic Institute; M.B.A., University of Rochester; Ph.D., Syracuse University
- NANCY W. BARRINEAU (1989), *Assistant Professor, Department of Communicative Arts*
B.A., Asbury College; M.A., University of Kentucky; Ph.D., University of Georgia
- RAY VON BEATTY (1972), *Professor, Department of Psychology*
B.S., Pembroke State University; M.Ed., Ph.D., UNC-Chapel Hill
- DONALD E. BEKEN (1989), *Associate Professor, Department of Mathematics and Computer Science*
B.S., in Electrical Engineering, Valparaiso Technical Institute; B.S., in Mathematics, Kent State University; A.M. West Virginia University; Ph.D., University of Mississippi
- SHARON S. BELL (1989), *Lecturer, Department of Business Administration and Economics*
B.S., Pembroke State University; M.B.A., The Lundy-Fetterman School of Business, Campbell University; C.P.A. State of North Carolina
- PAUL J. BERGHOFF (1975), *Professor, Department of Education*
B.A., M.A., Ph.D., University of Michigan

- WILLIAM R. BIDDLE (1986), *Lecturer, Department of Communicative Arts and Director of Givens Performing Arts Center*
B.A., Glassboro State College; M.F.A., University of Michigan
- OLLIE G. BISHOP (1979), *Assistant Professor, Department of Business Administration and Economics*
B.S., Pembroke State University; M.B.A., UNC-Chapel Hill; CPA, State of North Carolina
- LEON M. BOLICH (1982), *Professor, Department of Business Administration and Economics*
B.B.A., Niagara University; M.A., Ph.D., Catholic University of America
- **GERALD C. BORLAND (1968), *Professor Emeritus, Department of Geology and Geography*
B.A., Pennsylvania State University; M.S., University of Arizona
- SUE BOWDEN (1990), *Associate Professor, Department of Physical Science*
B.A., Meredith College; M.A.T., Ph.D., UNC-Chapel Hill
- JOHN R. BOWMAN (1979), *Associate Professor, Department of Sociology, Social Work, and Criminal Justice*
B.A., University of Kentucky; M.S., Florida State University; Ph.D., The Ohio State University
- MARY P. BOYLES (1977), *Professor and Associate Vice Chancellor for Academic Affairs*
A.B., UNC-Greensboro; M.A., UNC-Chapel Hill; Ph.D., UNC-Greensboro
- CAROL W. BREWER (1988), *Lecturer, Department of Mathematics and Computer Science*
A.S., St. Mary's Junior College; B.A., UNC-Chapel Hill; M.A.Ed., Pembroke State University
- LILLIAN D. BREWINGTON (1988), *Instructor Librarian, Documents/Special Collections Librarian, Library Services*
B.A., Pembroke State University; M.L.S. North Carolina Central University
- ELINOR BRIDGES (1989), *Director of Library Services*
B.A., Wake Forest University; M.L.S., UNC-Greensboro; Ed.D., UNC-Greensboro
- ROBERT BRITTON (1991), *Professor, Department of Communicative Arts*
B.A., Pfeiffer; M.A., University of Mississippi; Ph.D., Florida State University
- DALTON P. BROOKS (1976), *Associate Professor, Department of Physical Science and Department of Education*
B.S., Pembroke State University; M.S., Temple University; Ph.D., University of Miami
- MONIKA C. B. BROWN (1982), *Assistant Professor, Department of Communicative Arts*
B.A., University of Georgia; M.A., Ph.D., Duke University
- ROBERT W. BROWN (1979), *Associate Professor, Department of History; Faculty Coordinator, Chancellor's Scholars Program*
B.A., UNC-Chapel Hill; M.A., Marshall University; M.A., Ph.D., Duke University
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B.S., Winston-Salem State University; M.S., Virginia State College; Ed.D., University of Virginia

ALAN J. YOST (1987), *Lecturer, Department of Mathematics and Computer Science*

B.S., M.S., Marshall University

DAVID D. ZEIGLER (1989), *Assistant Professor, Department of Biology*

B.S., Tarleton State University; M.S., Ph.D., University of North Texas

*On Leave

**Professor Emeritus

CHIEF EXECUTIVES* of PEMBROKE STATE UNIVERSITY

O.H. BROWN, *Acting President* (1940-1942)

B.S., North Carolina State; Ph.D., Johns Hopkins University

RALPH D. WELLONS, *President* (1942-1956)

A.B., M.A., Indiana University; Ph.D., Teachers College, Columbia University

WALTER J. GALE, *President* (1956-1962)

B.S., New Jersey State Teachers College; M.Ed., Ed.D., Duke University

ENGLISH E. JONES, *President* (1962-1972); *Chancellor* (1972-1979); *Chancellor Emeritus* (1979-1981)

B.S., University of Kentucky; M.S., North Carolina State University; LL.D., Wake Forest University; D.H. Pembroke State University

PAUL R. GIVENS, *Chancellor* (1979-1989)

B.A., M.A., George Peabody College; Ph.D., Vanderbilt University

JOSEPH B. OXENDINE, *Chancellor* (1989-)

B.A., Catawba College; M.Ed., Ed.D., Boston University

*This list includes chief executives since the institution became a totally collegiate-level institution. Prior to 1940, chief executives held the title of principal or superintendent. The title of President was changed to Chancellor beginning July 1, 1972, when Pembroke State University became a constituent institution of The University of North Carolina.

SUMMARY OF ENROLLMENT

90-91

SUMMER SESSION, 1990

First Term	1192
Second Term	833
Total Enrolled	2025

FALL SEMESTER, 1990

Freshmen	763
Sophomores	629
Juniors	581
Seniors	597
Special	178
Graduate	385
Total Number Enrolled	3133

SPRING SEMESTER 1991

Freshmen	540
Sophomores	580
Juniors	563
Seniors	638
Special	179
Graduate	317
Total Number Enrolled	2817

DEGREES CONFERRED,
MAY 1990

Bachelor of Science and Applied Science	263
Bachelor of Arts	116
Master of Arts	84
Total Number of Degrees Conferred	463

UNIVERSITY ENROLLMENT,
FALL 1990

Men	1258
Women	1875
Total Enrollment	3133

OUT-OF-STATE STUDENTS
1990-91

Alabama	0
Alaska	0
Arizona	0
Arkansas	0
California	1
Colorado	0

Connecticut	1
Delaware	0
District of Columbia	0
Florida	15
Georgia	3
Hawaii	0
Idaho	0
Illinois	0
Indiana	0
Iowa	2
Kansas	0
Kentucky	2
Louisiana	0
Maine	0
Maryland	10
Massachusetts	5
Michigan	2
Minnesota	0
Mississippi	0
Missouri	0
Montana	0
Nebraska	0
Nevada	0
New Hampshire	1
New Jersey	2
New York	8
North Dakota	0
Ohio	3
Oklahoma	1
Oregon	0
Pennsylvania	1
Rhode Island	1
South Carolina	16
South Dakota	1
Tennessee	0
Texas	1
Utah	0
Vermont	1
Virginia	11
Washington	0
West Virginia	0
Wisconsin	0
Wyoming	0

FOREIGN STUDENTS, FALL

1990	12
------------	----

**ENROLLMENT BY COUNTIES
OF NORTH CAROLINA, FALL
1990**

Almance	17	Jackson	0
Alexander	0	Johnston	15
Alleghany	0	Jones	1
Anson	12	Lee	2
Ashe	0	Lenoir	2
Avery	2	Lincoln	1
Beaufort	1	Macon	0
Bertie	0	Madison	0
Bladen	134	Martin	1
Brunswick	14	McDowell	1
Buncombe	3	Mecklenburg	15
Burke	2	Mitchell	0
Cabarrus	3	Montgomery	4
Caldwell	2	Moore	68
Camden	0	Nash	3
Carteret	6	New Hanover	12
Caswell	0	Northampton	0
Catawba	4	Onslow	11
Chatham	5	Orange	4
Cherokee	0	Pamlico	0
Chowan	0	Pasquotank	0
Clay	0	Pender	3
Cleveland	1	Perquimans	0
Columbus	186	Person	0
Craven	5	Pitt	0
Cumberland	461	Polk	0
Currituck	1	Randolph	8
Dare	1	Richmond	151
Davidson	4	Robeson	1362
Davie	3	Rockingham	6
Duplin	4	Rowan	7
Durham	16	Rutherford	2
Edgecombe	2	Sampson	20
Forsyth	15	Scotland	225
Franklin	1	Stanly	1
Gaston	8	Stokes	0
Gates	0	Surry	0
Graham	3	Swain	2
Granville	0	Transylvania	1
Green	0	Tyrrell	0
Guilford	16	Union	5
Halifax	9	Vance	1
Harnett	12	Wake	60
Haywood	0	Warren	2
Henderson	1	Washington	0
Hertford	0	Watauga	1
Hoke	68	Wayne	6
Hyde	0	Wilkes	2
Irdell	5	Wilson	1
		Yadkin	0
		Yancy	0

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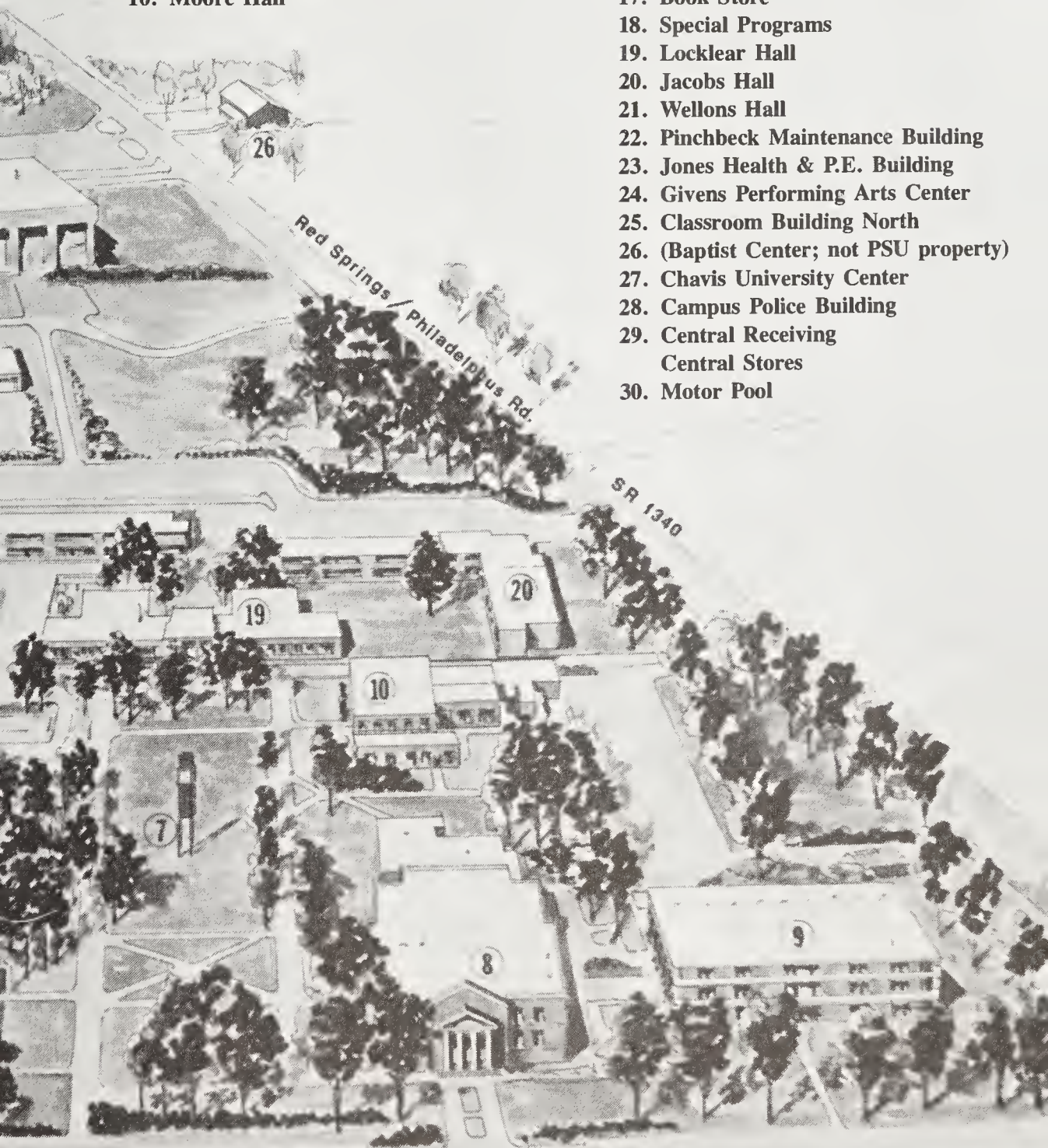
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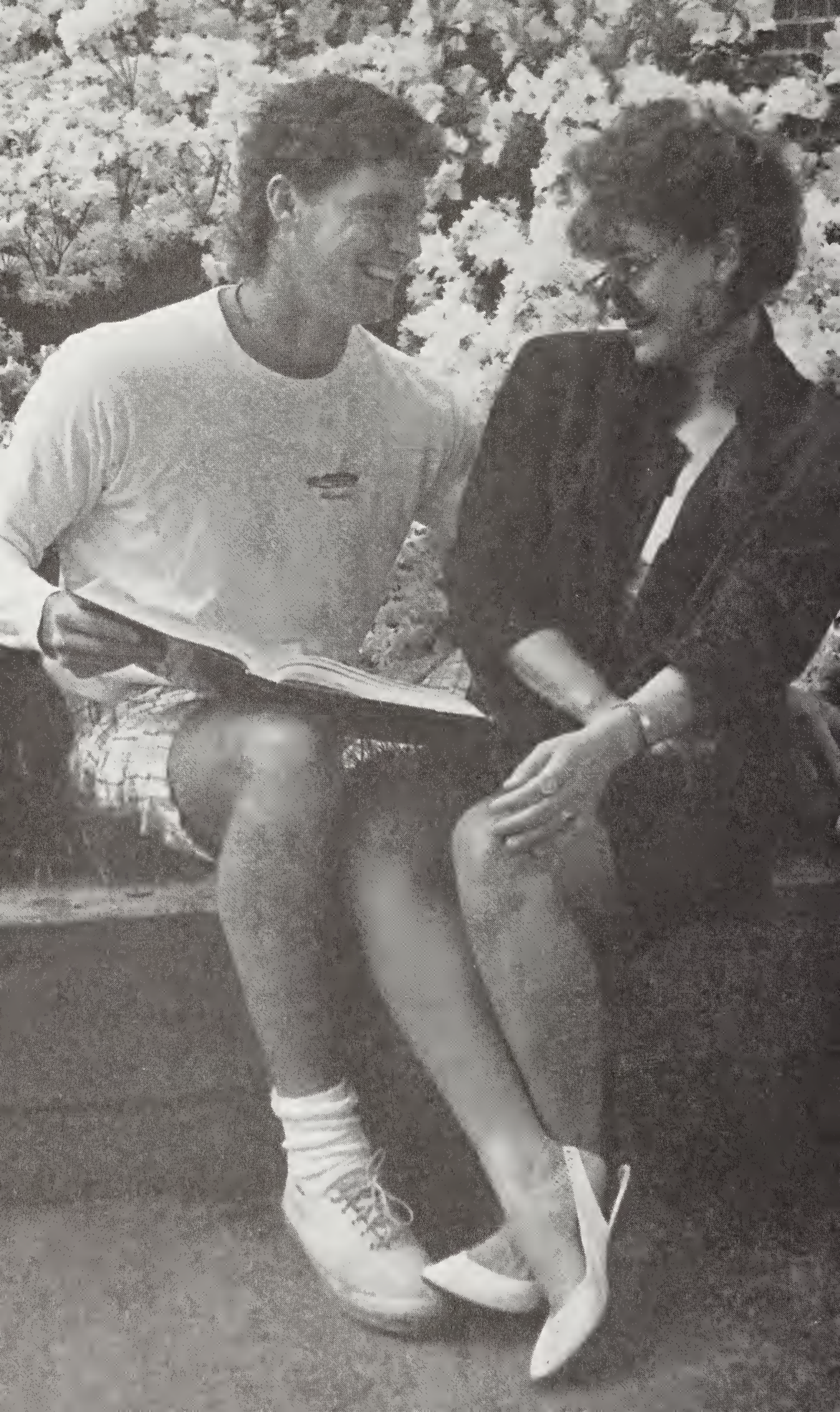
PEMBROKE STATE UNIVERSITY



KEY TO MAP

1. Sampson Hall (Administration)
2. Livermore Library
3. Admissions Building
4. Chancellor's Residence
5. Infirmary
7. Lowry Bell Tower
8. Old Main
9. Oxendine Science Building
10. Moore Hall
11. Belk Hall
12. West Hall
13. North Hall
14. Educational Center
15. Business Administration Building
16. Continuing Education & Summer School
- Air Force ROTC & Army ROTC
17. Book Store
18. Special Programs
19. Locklear Hall
20. Jacobs Hall
21. Wellons Hall
22. Pinchbeck Maintenance Building
23. Jones Health & P.E. Building
24. Givens Performing Arts Center
25. Classroom Building North
26. (Baptist Center; not PSU property)
27. Chavis University Center
28. Campus Police Building
29. Central Receiving
 Central Stores
30. Motor Pool





Pembroke State University is dedicated to equality of opportunity within its community. Accordingly, Pembroke State University does not practice or condone discrimination, in any form, against students, employees, or applicants on the ground of race, color, national origin, religion, sex, age, or handicap. Pembroke State University commits itself to positive action to secure equal opportunity regardless of those characteristics.

Pembroke State University supports the protections available to members of its community under all applicable Federal laws, including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 799A and 845 of the Public Health Service Act, the Equal Pay and Age Discrimination Acts, the Rehabilitation Act of 1973, and Executive Order 11246.

The University policy relating to student records complies with the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment). Accordingly, the University will release "directory information" to any person upon request, unless a student requests in writing that "directory information" be held private. "Directory information" is designated as:

Student's name

Sex

Address (campus, local, and/or permanent)

Telephone number

Date and place of birth

Major field of study, class, dates of attendance, degrees, honors received

Most recent previous educational institution attended

Participation in officially recognized activities, including intercollegiate athletics

Name, weight, and height of participants on intercollegiate athletic teams

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* * * * *

For more information about Pembroke State University, contact the PSU Admissions Office at (919) 521-9917 or toll free in North Carolina at 1-800-822-2185.

* * * * *

PEMBROKE STATE UNIVERSITY

Pembroke, North Carolina 28372-1510
(919) 521-4214



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